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From the Editor's Desk

Gary Yong Gee provides the feature article this issue on his memories from the World Orchid Conference held in March 2005 in Dijon, France. As readers are well aware, Gary is one of our finest orchid photographers and an excellent speaker who is most popular within Australia. Gary showcases many of the individual exhibits that caught his eye "through the lens". We may include a further selection of these images in the next issue of the *AOR*. The next WOC will be held in Florida, USA and we look forward to what promises to be an outstanding event.

Ray Clement from Tinonee Orchids concludes his article on Australian Orchids from a commercial perspective, a paper he delivered at the recent WOC. Whilst Rudolf Jenny discusses in detail the genus *Lueddemannia*.

Florilegium Books recently hosted the launch of my new book *Orchids: Cultivation, Propagation and Varieties* published by Murdoch Books. Murray Corrigan, the founding Editor of *The Orchadian* and current Chairman of the Ira Butler Trophy Committee launched the book that was attended by friends and members of the orchid and horticultural world. It's currently available (RRP $39.95) through major book chains in Australia, as well as Florilegium Books and Orchidaceous Books. As well, it will soon be available through the *AOR*'s popular Mail Order Bookshop. A raffle was held on the day with the proceeds going to Retina Australia (NSW), with around $350.00 raised. Thanks again to Gil Teague for organising and hosting this event. The same book has also been released in the USA through Timber Press as *The Orchid Grower's Companion*. It's the same book, but in hardcover, whilst another publisher has it as *Orchids At Home*. Just so you know!

The Tropical Queensland Orchid Council held its annual show and conference this year in Mackay, with the host society being the Mackay and District Orchid Society. It was a wonderful conference with close to 200 registrants, and an impressive show. Next years event is to be in Townsville, and if this conference was any guide, obviously an event not to be missed. Thank you North Queensland for your friendship and hospitality.

Congratulations to Mr Lou Sasso OAM on achieving the milestone of his 100th birthday. Lou has been a major force in orchids in New South Wales over many decades, and has won numerous prizes and awards for his plants. Older issues of the *AOR* show how much Lou dominated the show benches. I remember being fascinated when seeing my first *Nepenthes* pitcher plant at Lou's home in Henley when I was about 10, now I grow hundreds of them!

Speaking of some of our elder statesmen, at the recent OSNSW Winter Show I was leading the *Cattleya* panel, and had 91-year-old Gordon Hansen as part of the team. Gordon arguably would have judged more orchid shows than anyone in Australia, and has been doing so for over 55 years. He has been a very hardworking judge and committeeman over many years for the Orchid Society of New South Wales, and I personally think it's inspirational that Gordon still has the drive and enthusiasm in this wonderful hobby at his age. By the way, Gordon also correctly picked the Grand Champion!

The second Orchid Fair at Mingara (held on the Central Coast of New South Wales) featured all of its listed vendors and was an outstanding success. It is a credit to the organising committee of Ian Slade, Phil Spence and Brian Gerhard who undertook this project. The popularity of orchid fairs has really taken off as customers get to enjoy the benefits of having all of their orchidaceous needs under one roof, as well as being able to compare the quality of the plants and prices. When's the next one!

David P. Banks
Editor, Australian Orchid Review
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OUR COVER

Calanthe striata 'Wössen' was Grand Champion at the recent World Orchid Conference held in Dijon, France. Read the report by Gary Yong Gee in this issue. Photo: Gary Yong Gee.

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Calanthe striata 'Wössen' GM/18WOC Grand Champion

Memories of Dijon

(The 18th World Orchid Conference – 11 to 20 March 2005)

text and photos by Gary Yong Gee

I had been warned that the weather would be cold in Europe in March. Thick snow covered many of the areas of France, Belgium, Germany and Switzerland that we visited prior to the Conference. One exhibitor told me that the cold weather and lack of sunlight had reduced the number of orchids that they had hoped to show.

The 18th World Orchid Conference was held in conjunction with Florissimo at the Palais des Congres in Dijon in the Burgundy district of central France. An extensive exhibition covering over 16,000 m2, Florissimo is the triennial European International Flower Show that was anticipating a quarter of a million visitors this year. There's nothing like a major drawcard to bring in the crowds. Timing of Florissimo was brought forward by one year to include the WOC show, which is also held every three years. In keeping with a tropical theme, the emblem of Florissimo is the toucan and the previous event was held in conjunction with a tropical fish display.

The City of Dijon provided staff, background plants and props as well as landscaping for the orchid show. Wetting down of the walkways to maintain humidity was done by staff early in the morning and heating the venue continued throughout the day and night. High ceilings allowed for some large and impressive displays. Lighting in the huge dark interior was provided by numerous spotlights from above as well as within the exhibits.

Ten days is a very long time for a flower show especially when cut flowers are involved. Luckily some exhibitors had back-up flowers since many of the flowers, including some of the prize winners, had gone off before the end of the Conference. Surrounding towns and cities provided most of the Florissimo displays. Many of these were elaborate and often incorporated a theme. The Toucan D'or (Gold Toucan) was awarded to the display by the town of Clermont-Ferrand. They used radiating raised umbrellas above water, stones and bromeliads and included floral arrangements incorporating orchids and anthuriums. 'Cave of Aromas' was an unusual and interesting display provided by Burgundy Wines. It consisted of 12 large glass containers filled with different natural scents. Viewers could then sniff each of these and read a short explanation.

An extensive sales area catered for not only orchids but also many other tropical plants, books and paraphernalia. This area also included many cafes and sit down restaurants with waiter service to cater for the numerous patrons. Opening hours were from 9:00 am till 8:00 pm (11:00 pm Saturdays) and the entrance fee for adults was Euro 12.50 (approximately $20). I was surprised that the crowds continued into the evenings.

In the WOC show, yellow, red and green (first, second and third) ribbons and gold, silver and bronze medals and trophies were awarded in various categories. Categories included Displays, Individual Plants and Cut Flowers, Specimen Plants, Awards of Commercial Excellence ("ACE" awards), Orchid Fragrance, Orchids in Art and Orchid Websites.

Judging of the orchid show was by an international panel of judges under the guidance of a Judging Committee with Gabriel Cayrol as President. The tight schedule commenced at 9 am with ribbon, medal and trophy judging having to be finished by noon. Nominations for Grand Champion Orchid were to be submitted

Paphiopedilum delenatii fma. *album* GM/18WOC

by 11.30 am with balloting at noon. Of the five nominees, the Grand Champion Orchid with the most votes was *Calanthe striata* 'Wossen' owned by Franz Glanz. A specimen plant with five upright racemes, this was an outstanding cultivar of the Japanese species that is also known as *Cal. sieboldii*. Reserve Grand Champion Orchid with the next highest number of votes was *Paphiopedilum hirsutissimum* var. *esquirolei* shown by K. J. Orchids from Denmark.

Balloting for the exhibits was conducted similarly. Grand Champion Orchid Exhibit went to the large display with a tropical island feel presented by Vacherot and Lecoufle. Colour groupings of *Phalaenopsis*, *Cattleya* alliance, *Paphiopedilum* and *Odontoglossum* alliance were displayed around a wooden hut with baskets, wooden chests, wheelbarrows and orchid paintings.

Reserve Champion Exhibit took the staff of the Eric Young Orchid Foundation several days to set up under freezing cold conditions. Their exhibit showed off their own hybridising for which they are world renowned. Well displayed amongst staghorn and fern greenery with a small central water feature were colour groupings of cut *Cymbidium*, multifloral and complex *Paphiopedilum*, *Miltoniopsis*, *besseae*-style and *caudatum*-style *Phragmipedium*, *Lycaste* and *Angulocaste*. Both Champion exhibits were awarded Gold Medals.

Singapore National Parks, which incorporates the Botanic Gardens, was awarded the trophy for Best Illuminated Display. Their multi-sided exhibit featured different styles of traditional dance from the various cultures which make up that small island country. Colour themes of red and white, white and blue, orange

2005 18th WOC La Poste miniature sheet featuring *Paphinia cristata*, *Psychopsis papilio*, *Paphiopedilum* Mabel Sanders & *Cypripedium calceolus*

and gold in the form of groupings of *Renanthera*, *Ascocenda*, *Dendrobium*, *Mokara*, *Aranda*, *Vanda* and their associated hybrids were presented en masse amongst life-size stylised cut-out figures.

A wide variety of genera and specimen plants was staged on raised circular platforms of varying heights in a large display by Franz Glanz's nursery (Glanz Wössner) from Germany. Apart from the Grand Champion, good quality and culture was evidenced by the number of ribbons and medals for his specimens of *Calanthe striata*, *Coelogyne cristata*, *Cymbidium* Mem. Amelia Earhart, *Den. mohlianum*, *Den. arcuatum*, *Ida fimbriata*, *Phragmipedium besseae* and *Zygopetalum* Artur Elle.

Hans Christiansen Orchidegartnariet from Denmark exhibited prize winning specimens of *Calanthe rubens*, *Epidendrum cooperianum*, *Epi. coriifolium*, *Lycaste skinneri*, *Mediocalcar*

Paphiopedilum hirsutissimum var. *esquirolei* GM/18WOC Reserve Champion

Phragmipedium Icho Tower 'Samares' (Mem. Dick Clements x Eric Young) SM/18WOC

Dendrobium hemimelanoglossum GM/18WOC

Dendrobium glomeratum SM/18WOC

Dendrobium eximium SM/18WOC

Eulophia guineensis SM/18WOC

Zygopetalum Big Country (Advance Australia x Titanic) SM/18WOC

Phalaenopsis Luchia Pink 'Champion Sweetheart' (Luchia Lady x Taisuco Beauty) SM/18WOC

Odontioda Wössner Purpurstern (Trophy for Best *Odontoglossum* Intergeneric Hybrid)

Phalaenopsis Timothy Christopher 'Fuller's' (Cassandra x *amabilis*) GM/18WOC

Phalaenopsis Sogo Cock 'Joy' (Sogo Peak x Sogo Kaiulani) GM/18WOC

Epidendrum Wedding Valley 'Kiara' (Princess Valley x Pearl Valley) BM/18WOC

Epidendrum Twinkle Valley 'Crown' (*elongatum* x King Valley) BM/18WOC

decoratum, *Osmoglossum pulchellum* and *Stelis flexuosa*.

Height was achieved using pillars of brush or broom in the South African Orchid Council's large display. A colourful mix of cut flowers and flowering plants, this creditable display showed off a range of genera that included hybrids and species, with *Phalaenopsis* and *Disa* predominating.

Sadly, there were no Australian exhibits, although the Orchid Council of New Zealand had a display. A small whare (traditional meeting house) featured amongst a mass of *Cymbidium* flowers and a backdrop of some photos of native species.

A modern exhibit by the Kring Nederlandse Orchideën Producenten incorporated light green planter boxes to show off cut flowers and pot plants. This Dutch association of orchid producers grow *Cymbidium* for cut flowers and *Miltoniopsis*, *Paphiopedilum* and *Phalaenopsis* for the pot plant trade.

Another striking display, although it had no flowers, was of different species of *Vanilla* and their origins. It gained the town of Cherbourg Octeville a Bronze Medal. In the forefront of *Phalaenopsis* hybridising, the setting by Taiwan Pavilion showed off the range of colours from yellow and sunset shades to pink and dark red. Groups of multiple plants in one pot with the racemes arranged like a tiled wall were certainly eye-catching. Bright golden sprays of *Oncidium* were also highly effective in enhancing the exhibit.

Jardin du Luxembourg in Paris is the garden administered by the French Senate. Since 1860, the Garden has built up a large orchid collection that is now recognised as a national resource. Known for their old *Paphiopedilum* hybrids, they dotted these amongst some of the *Paphiopedilum* species, *Renanthera imschootiana* and *Stenorrhynchos speciosum* on a base of broken slate. Their display used tapered slate-coloured plinths to support specimens of *Dendrobium* x *delicatum*, *Den. kingianum*, *Epidendrum stamfordianum*, *Osmoglossum pulchellum*, *Rhynchostele bictoniense*, *Schomburgkia superbiens* and *Ansellia africana*.

In conjunction with the World Orchid Conference, the French Post Office (La Poste) issued four stamps and a miniature sheet depicting *Cypripedium calceolus*, *Paphinia cristata*, *Paphiopedilum* Mabel Sanders and *Psychopsis papilio*. The reproductions used for the design of the stamps came from the Jardin du Luxembourg.

I was disappointed to hear that CITES paperwork and red tape caused problems for some exhibitors from Colombia, Peru, the Philippines and Madagascar. It took them considerable effort and expense to bring their plants. Having them refused entry, or not being allowed to show them, will surely make others think twice about exhibiting at future World Orchid Conferences.

Congratulations are in order for Colin Hamilton (Webmaster) and Wolfgang Bandisch (Designer) for the Australian Orchid Council Website at www.orchidsaustralia.com that gained first prize for the Best Institution or Orchid Society Website.

One of the advantages as a registrant was being able to photograph prior to the opening of the show each morning. The large crowds made it almost impossible to take photos of the displays during the day.

Another part of the Conference that I look forward to as a registrant is seeing or learning new things. Approximately 70 speakers covered topics that included discovery, DNA, conservation and CITES, pollination and horticulture during the three and a half day lecture program. Some 50 Posters on display also explained similar themes. With so many excellent speakers to choose from in the concurrent sessions, I sometimes found it difficult to decide which ones to miss.

At each WOC since 1964 the Orchid Society of South East Asia has awarded its Fellowship and gold medal to individuals who have made visible contributions to the field of Orchidology. Congratulations to this year's worthy recipients Gerald McCraith (Director of the Australian Orchid Foundation), Kiat Tan (Singapore Botanic Gardens) and Phillip Cribb (Deputy Keeper of the Herbarium, Royal Botanic Gardens, Kew). Phillip Cribb was also awarded the American Orchid Society's Gold Medal of Achievement.

Three resolutions were submitted by the Taxonomy and Nomenclature Committee to the International Orchid Committee which met in Dijon. These were that ongoing changes in orchid classification published in *Genera Orchidacearum* will require adjustments to hybrid genera; input to modification of this system will be sought from all sectors of the orchid world; and that any system developed will ensure "consistency in application, stability, ease of use and retention and rapid accessibility of genealogical information." Vinciane Dumont and her organising committee are to be congratulated for a memorable World Orchid Conference.

Miami, Florida is site for the 19th World Orchid Conference from 27th February till 2nd March 2008. The Site Selection Committee met in Dijon and decided that Singapore will host the 20th World Orchid Conference in 2011. ■

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Pararanthera Dhanabalan (*Prn.* Yee Peng x *Ren.* Kalsom) SM/18WOC

The Commercial Importance of Australian Native Orchids

Part 2

by Ray Clement

DENDROBIUMS

To choose the best grex from this group is difficult, however I suggest the modern remakes of the primary hybrid and very early favourite *Dendrobium* Delicatum are hard to go past. This hybrid combines the species *Dendrobium kingianum* and *Dendrobium speciosum*. This grex was registered as *D.* Specio-kingianum, but is well known to plant growers and entrenched in cultivation as *D.* Delicatum or in short, a "dellie".

Other popular primary hybrids include *D.* Bardo Rose (*kingianum* x *falcorostrum*), *D.* Ellen (*kingianum* x *tetragonum*) and *D.* Hilda Poxon (*speciosum* x *tetragonum*).

The decision to remake various hybrids has been based on the experience of past generations of breeders and their results. *D.* Delicatum, a favourite early hybrid, has however one major advantage. Both parents (*D. speciosum* and *D. kingianum*) are extremely variable and made up of a diverse group of plants spread over a wide natural range throughout eastern Australia, and as such have a large variation in both form and habit. This genetic diversity has given horticulturalists the opportunity to line-breed the respective species, avoiding inbreeding, and remarkably superior forms of these species orchids have been achieved. These advanced "super species" have provided the backbone for superior remakes of past primary and complex hybrids.

These new, superior cultivars have been used to remake the proven cultivar *D.* Delicatum with spectacular results. By using selected clones, *D.* Delicatum plants with short pseudobulbs (100mm) up to larger plants (300mm) plus can be produced, or with blooms in cream/yellow, white, pink or purple is possible. Plants bloom three years from seed, are vigorous growers usually doubling their size each year, and are hardy and versatile. We grow plants in a bark based medium in pots, bowls or saucers, or mounted on tree fern or cork slabs.

Much potential remains, with as yet very little work being done with colchicine and mericloning techniques.

Dendrobium Delicatum 'Pretty Good' HCC/AOC

Dendrobium Aussie Starlight

Dendrobium Gillieston Jazz "Lisa'

Sarcochilus hartmannii 'Red Snow' HCC/ANOS

One of Ted Gregory's famous *Dendrobium* displays

Sarcochilus hartmannii 'Yellow Snow' AD/ANOS

Sarcochilus Melba

SARCOCHILUS

Sarcochilus, as with Dendrobiums, have been largely developed by enthusiasts for the hobby market. Most of this work has explored the development of different colours and flower shapes, utilising many of the botanical epiphytic species. Whilst many of these novelty hybrids are dainty plants with cute colourful flowers, their small size and erratic growing habits excludes them as pot plants. These plants are attractive to hobbyists and breeding thus far has concentrated on this market.

Sarcochilus hartmannii is the species within the Sarcanthinae that does have outstanding commercial potential as a pot plant. Hybridists have introduced other species such as *Sarcochilus fitzgeraldii*, *S. ceciliae* and more recently species such as *S. hirticalcar* and *S. weinthalii*. These hybrids, whilst producing different colours and flower forms, do not possess the vigour and general appeal of *S. hartmannii* or hybrids dominated by this species.

Modern cultivars of *S. hartmannii* are multigrowth, vigorous plants with strong compact glossy-green foliage bearing many crystalline white blooms, on stout upright inflorescences is what the general consumer wants from this style of plant. I

Sarcochilus Sherlock 'Tinonee' HCC/AOC

Sarcochilus Carnival 'Blood Plum'

Group of *Sarcochilus* at Hills District Orchids

Sartylis Jannine Banks 'Tinonee'

believe they have a huge future as pot plants. These monopodial plants, unlike dendrobiums, enjoy low light, and as such are well suited to indoor culture. Their ultimate potential remains to be tested, but indications are that there is much potential. Early trials through supermarkets in Australia have been most encouraging.

OTHER AVENUES UTILISING AUSTRALIAN ORCHIDS

Sarcochilus intergenerics with "exotic" genera

The key Australian species to utilise with "exotic" relatives would undoubtedly be *Sarcochilus hartmannii*. Based on its pot plant attributes discussed earlier, coupled with the well-known commercial value of *Phalaenopsis* and *Rhynchostylis*, have produced a line of hybrids that are ideal indoor plants. These hybrids bloom more than once a year, have a compact habit and are more tolerant of a wide temperature range.

Breeding such plants has been difficult due to the very low number of successful combinations and the miniscule amount of viable seed produced. Mericloning superior cultivars is the only commercial way of mass producing these scarce but highly popular hybrid combinations.

The outstanding grexes within this group include:

* *Sartylis* Blue Knob (*Sarcochilus hartmannii* x *Rhynchostylis retusa*)
* *Sartylis* Jannine Banks (*Sarcochilus hartmannii* x *Rhynchostylis gigantea*)
* *Sartylis* Bravehart (*Sarcochilus* Fitzhart x *Rhynchostylis gigantea*)
* *Porterara* Blue Boy (*Sartylis* Blue Knob x *Vanda coerulea*)
* *Sarconopsis* Lavinia (*Sarcochilus hartmannii* x *Phalaenopsis rosenstromii*)
* *Sarconopsis* Rita Anderson (*Sarcochilus* Lois x *Phalaenopsis rosenstromii*)

Sartylis Bravehart 'Sandy'

Sartylis Blue Knob

Phaius tankervilliae var. *albus*

Pterostylis baptistii 'Greenpoint' HCC/AOS

Pterostylis baptistii 'Greenpoint' HCC/AOS

* *Sarconopsis* Noelene Russell (*Sarcochilus* Melba x *Phalaenopsis rosenstromii*)

There has also been a range of hybrids involving *Sarcochilus hartmannii* and complex *Phalaenopsis* hybrids, such as *Sarconopsis* Macquarie Sunset and *Sarconopsis* Macquarie Lilac. Whilst young plants are somewhat slow growing, their potential as pot plants is evident as they can bloom throughout the year with individual flowers that are long lasting.

Evergreen Terrestrials

I have decided to include this group, because although some work has been done already, and some exotic species are included as well as Australian orchids, there is enormous potential and a lot more opportunities remain. Large growing species such as the Australian *Phaius tankervilliae, Phaius australis,* and *Phaius bernaysii* have been used successfully as garden plants in damp, shady areas, however their limited availability has hampered their potential.

The introduction of hybrids, with species such as *Phaius flavus* and its sister taxon *Phaius minor* has allowed a new colour range and more compact growth style. Combined further with species such as the closely related Madagascan *Gastrorchis pulcher* and *Gastrorchis tuberculosa* have produced fabulous plants. These plants are quick to grow and flower and large-scale production will see their availability create their own demand. The use of smaller blooms, such as the evergreen *Calanthe triplicata* with its compact, attractive "tropical style" foliage and natural hardiness will see a further dimension to this group which will attract attention for their commercial potential as highly desirable garden and pot plants. These orchids lend themselves to hydroponic culture and trials thus far in Australia have been highly successful.

Deciduous Terrestrials

A few years ago we experimented with marketing a selected number of very easy to grow and propagate greenhood orchids at orchid and plant fairs targeting specialist orchid growers and the gardening public. In my opinion only the most vigorous species of *Pterostylis* are suited, planting eight tubers to a 140 mm pot. The species used are *P. curta, P. baptistii, P. pedunculata* and *P. nutans*. Whilst their cultural requirements are specific, their growing needs are simple and their full production cycle takes only twelve months.

Conclusion

To date the commercial orchid industry in Australia has largely concentrated on the production of exotic orchids. Now that much of the experimental breeding and early development has been done, I believe selected Australian Native Orchids and their hybrids will become an important part of the production of many commercial plant growers in the future.

The opportunity to incorporate these plants into commercial orchid production has exciting potential. I believe that in the future, both Australian and International commercial orchid growers, will consider Australian native orchids as a viable part of their production strategies.

(Photos by Ray Clement, David Banks, the late Sid Batchelor and selected award slides from ANOS and OSNSW archives.) ■

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Porterara Blue Boy 'Jill' HCC/AOC

Porterara Blue Boy 'Jill' HCC/AOC

The genus *Lueddemannia* – a review

by Rudolf Jenny

General:

The history of *Lueddemannia* starts "officially" 1851 with a first description in a completely different genus.

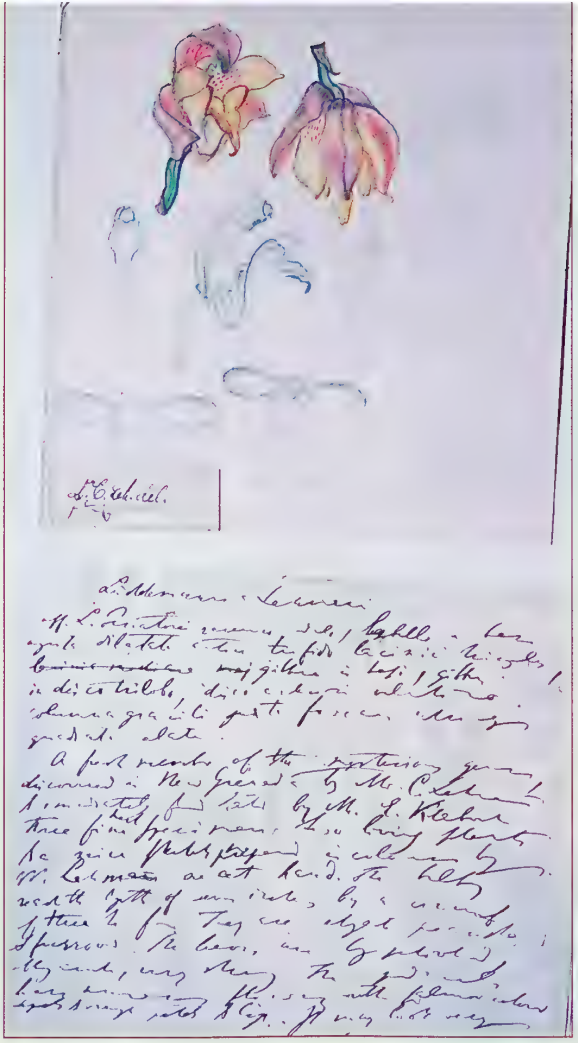
In 1848 the LINDEN nursery in Belgium imported some plants from Colombia, supposedly belonging to the already known genus *Acineta* and collected by SCHLIM. At least one of those plants was sold to the famous Jean-Pierre PESCATORE (1793 – 1855) in France. Gustav Adolph LUEDDEMANN, PESCATORE's gardener, was able to flower the plant and it was immediately clear that it couldn't be a known *Acineta* at all. So he sent a few dried flowers to LINDEN in Belgium and from there John LINDLEY got the material. 1851 LINDLEY described – based on the dried flowers only – in Paxtons Flower Garden a new species as *Cynoches pescatorei*, dedicated to PESCATORE (Lindley, 1851). Parallel to LINDLEY's description LINDEN used different names for the same species in his different sales catalogues, so we find the first mentioning of *Acineta glauca* in one of those catalogues, without any further description. LINDLEY himself mentioned in his first description 1851 *Acineta glauca* as synonym for his *Cycnoches pescatorei*, but he was not the first one using this name as quoted in Index Kewensis. Since there are no illustrations or descriptions of *Acineta glauca* available, it is not certain that it was the same as *Lueddemannia pescatorei* as – based on LINDLEY's remark from 1851 – quoted by many authors. In the herbarium at Kew are two dried flowers named *Acineta glauca* but without any further information about it's origin.

It seems to be strange that originally LINDLEY described *Lueddemannia pescatorei* as *Cycnoches pescatorei* but it is important to know that LINDLEY never saw the plant itself, his description was based on a few dried flowers. LINDLEY was aware of the fact that *Cycnoches* was one of the few genera in the Orchid family with two different flower forms, female flowers with a stigma but no pollinaria and male flowers with pollinaria and no stigma. Nevertheless, most of the taxonomists were looking only for the two generally different flower forms and not particularly for the presence of stigma and/or pollinaria. Only when they got from time to time the same plant with both flower forms together, they realized the problem. Mixing up of plants was a reason that even REICHENBACH considered his *Lueddemannia pescatorei* as a different sexual form of his own *Acineta erythroxantha*, first of all because he got flowers of *Lueddemannia pescatorei* and later on the supposed same plant from VEITCH, and one year later the plant flowered as *Acineta erythroxantha* (Reichenbach, 1885). The plants of both species without flowers are very similar anyway.

Two persons involved in this very early period of the history of *Lueddemannia* should be introduced, Gustav Adolf LUEDDEMANN and Jean-Pierre PESCATORE. PESCATORE was 1793 born in Luxembourg. He moved 1834 to France and became banker after he earned a fortune in the tobacco-business, as it is said by illegal activities. When Louis-Philippe was overthrowne during the revolution of 1848, PESCATORE already had one of the largest and finest collection of Orchids in Europe in Chateau de la Celle-Saint-Cloud. He also was founder of of the Foundation and Museum PESCATORE in Luxembourg. Three years after the revolution he obviously was involved in the financing of the return of Napoleon III. In 1849 he showed in Paris several Orchids, in the same year he showed also plants at the Spring Exhibition in Paris. 1852 he got the first prize for plant amateur collectors and 1853 he became President of the Société d'Horticulture de Seine-et-Oise. PESCATORE was a regular and excellent customer of LINDEN in Ghent and Jean Jules LIN-

Lueddemannia triloba from Gardeners' Chronicle, fig.118 from December 1895. Slide R. Jenny

FIG. 118.—LUDDEMANNIA TRILOBA: FLOWERS OF NATURAL SIZE, ORANGE-COLOURED.



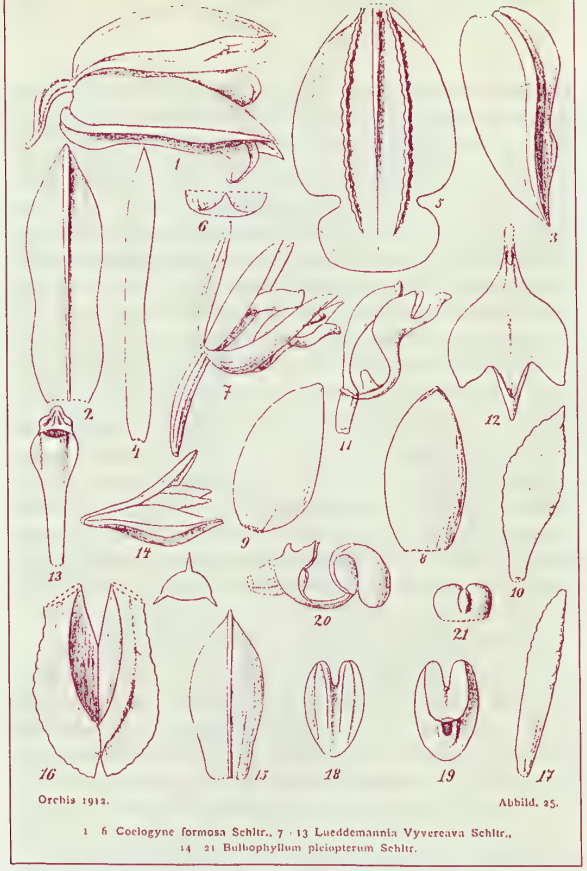
Lueddemannia lehmannii, watercolor drawing by F. C. LEHMANN from the herbarium REICHENBACH in Vienna (no.44758). Slide R. Jenny

DEN had a very close relationship with PESCATORE, the very famous iconography Pescatorea is named after PESCATORE. Published by Jean-Jules LINDEN as Pescatorea, Iconographie des Orchidées between 1854 and 1860, as folio with 48 hand-coloured lithographed plates after F.de TOLLENAERE and MAUBERT. The work was published by LINDEN as editor with collaboration of Jules Emile PLANCHON, Heinrich Gustav REICHENBACH fil and Gustav Adolphe LUEDDEMANN. According to LINDEN's own preface, PESCATORE's death in 1856 and subsequent withdrawal of financial support by his executors meant the end of the publication with the present 12 livraisons. Apparently it was not the descision of PESCATORE himself but of his heirs. This is the generaly accepted version, but it is interesting to note that the "conditions de la souscriptions" printed on the lower cover of the wrappers announce that the book will be published in 12 monthly parts, each containing 4 plates, beginning on 1st of June 1854, and forming a single "magnifique volume in folio", no mention is made of any further volumes, so it was only planned for one Volume because the subscription note was published before the second livraison appeared. The wrappers also demonstrate a shift in emphasis towards LINDEN. The title on the upper wrappers reads "Pescatorea, Iconographie des Orchidées de la collection de M. PESCATORE, au Chateau de la Celle-St.-Cloud. Rédigées par Messieurs LINDEN, LUEDDEMANN, PLANCHON, REICHENBACH" with all of the editors given equal billing. By January 1860, when the title and preface were printed, LINDEN had claimed a more important position and PESCATORE no longer appears in the title at all. Nevertheless, Pescatorea is certainly one of the most beautiful books about orchids in it's time, it was reprinted in 1994 by Naturalia and with a translation by Guido J. BRAEM.

Gustav Adolf LUEDDEMANN was the responsible gardener for PESCATORE's Orchid collection. Without any doubts he was a man with green thumbs, many of the orchids PESCATORE bought with LINDEN or SANDER he managed to flower in cultivation for the first time. *Cattleya lueddemanniana* Rchb.f. , *Phalaenopsis lueddemanniana* Rchb.f., *Odontoglossum lueddemanni* Regel, *Warscewiczella lueddemanniana* Rchb.f. and *Schomburgkia lueddemani* Prill. were named after him. In his later years LUEDDEMANN had his own nursery. He died March 15th 1884 in the age of 63 years, his collection was bought in one piece by Le Duc de MASSA of Foucanville for 16'800 Francs, and as quoted by the author of this message in Gardeners' Chronicle "considerably less than would have been obtained had the collection been divided into lots."

Back to *Lueddemannia*, another often used synonym for the later *Lueddemannia pescatorei* was *Cycnoches lindleyi*.A plant was sold under this name at an auction of a small orchid collection from Colombia by STEVENS in London and mentioned without formal description 1851 in Gardeners' Chronicle (Anonymous 1851). *Cycnoches lindleyi* was cited as synonym of *Cycnoches pescatorei* – the later *Lueddemannia pescatorei* – by LINDEN in his catalogues several times (Linden 1853 & 1855). In 1854 Heinrich Gustav REICHENBACH published a treatment of a collection of Orchids by Joseph SCHLIM in the journal Bonplandia, in this paper he also described the new genus *Lueddemannia* based on plant material collected by SCHLIM in Ocana, Colombia (no.1194). He used the opportunity to move LINDLEY's *Cycnoches pescatorei* from *Cycnoches* to *Lueddemannia* (Reichenbach, 1854) but he used SCHLIM's plant as type (no.44772). On the same herbarium sheet we find the name *Peristeria monstra*, probabely this was the name SCHLIM used for the plant, anyway *Peristeria monstra* was never published. In 1863 REICHENBACH repeated in his treatment of the Orchidaceae in Walpers Annales Botanices

Lueddemannia pescatorei from Curtis's Botanical Magazine (t.7123), original aquarell. Slide R. Jenny. With the permission of her Majesty's stationary officer and the Royal Botanic Gardens Kew


Orchis 1912.
Abbild. 25.
1 6 Coelogyne formosa Schltr., 7 13 Lueddemannia Vyvereava Schltr.,
14 21 Bulbophyllum pleiopterum Schltr.

Lueddemannia vyvereana from Orchis, 1912. Slide R. Jenny

Systematicae the description of *Lueddemannia pescatorei* (Reichenbach, 1863), he wrote: "Huc dicitur pertinere *Cycnoches Lindleyi*, nomen G(ardener's) Chr(onicle) 1851, 392", REICHENBACH was well aware of the first mentioning of *Cycnoches lindleyi* in the Gardeners' Chronicle of 1851 and its identity with *Lueddemannia pescatorei*.

Obviously *Lueddemannia pescatorei* was in the last half of the 19th century kept in quite a few collections in Europe, PLANCHON reported 1855 a plant from the collection of of Prince A. de DEMIDOFF at San Donato, Florenz (Planchon, 1855), again *Acineta glauca*, *Cycnoches lindleyi* and *Cycnoches pescatorei* are mentioned as synonyms. In 1857 another plant was reported from the collection of the Oberlandesgerichtsrathes AUGUSTIN at the Wildparkstation in Potsdam, Germany (Anonymous, 1857). The species is also mentioned in the 4th edition of the catalogue of Consul SCHILLER's famous orchid collection near Hamburg, SCHILLER used the name *Cycnoches* pescatoris hort. with the remark = *Acineta schilleriana* Rchb.f., also *Cycnoches lindleyanum* hort = *Acineta cryptodonta* Rchb.f. was listed (Schiller, 1861). The type specimens of *Acineta schilleriana* (no.44876) and *Acineta cryptodontha* (no.44878) in REICHENBACH's herbarium in Vienna are showing clearly that both taxa are true *Acinetas*, so in this case we don't know whether SCHILLER realy had a *Lueddemannia* in his collection. 1876 Benjamin Samuel WILLIAMS reported *Lueddemannia pescatorei* from the collection Oscar LAMARCHE at Liege in Belgium (Williams, 1876a & 1876b). Reported by B.S.WILLIAMS a plant of *Lueddemannia pescatorei* was awarded in May 1885 by the floral committee of the show during the Orchid Conference in South Kensington, the plant was exhibited by Trevor LAWRENCE (Williams, 1885). Obviously John DAY got after the show one of the inflorescences from Trevor LAWRENCE, in his famous scrap books we find a drawing of this inflorescence from May 21th 1885 (Day, 1885).

In 1889 R.A.ROLFE from the Royal Botanic Gardens Kew got an inflorescence of *Lueddemannia pescatorei* from F.W.MOORE from the collection of the Glasnevin Botanical Garden (Rolfe, 1889). Obviously Kew also got a plant from Glasnevin Botanical Garden, the plate in Curtis's Botanical Magazine from 1890 was made after this plant and Lucien LINDEN reported in 1891 (Linden, 1891) a plant in Kew. In 1892 LINDEN reported a plant from the collection of Consul KIENAST ZOELLY from Zurich, Switzerland (Linden, 1892). In 1896 James O'BRIEN mentioned a *Lueddemannia* from the collection of of R. I. MEASURES at Cambridge Lodge, Camberwell, cultivated by H. J. CHAPMAN (O'Brien, 1896). One year later, on April 27th 1897, a *Lueddemannia pescatorei* from the collection of Major JOICEY from Sunnindale Park, grown by Mr. THORNE, was presented to the Orchid Committee of the Royal Horticultural Society with a raceme of 74 flowers and received a Cultural Commendation (Anonymous, 1897). From the same collection, grown by Mr. HISLOP, a *Lueddemannia lehmanni* with four racemes got a Cultural Commendation during the Temple Show in 1899 (Anonymous, 1899). In 1901 the nursery SANDER in St. Albans offered in the catalogue *Lueddemannia lehmanni*, *Lueddemannia pescatorei*, *Lueddemannia triloba* and *Lueddemannia sanderiana* (syn.*Lacaena bicolor*) (Sander, 1901). In his catalogue of 1927 SANDER still offered the same plants (Sander, 1927). Miss WILMOTT, Warley Place, Great Warley, Essex (grower Mr. GOOCH) received on June 6th 1906 a Botanical Certificate from the RHS for *Lueddemannia pescatorei* with a raceme 4 feet long (Anonymous, 1906) and at the RHS meeting of July 23rd 1907 Mr. BOWLES exhibited a large inflorescence of *Lueddemannia pescatorei*, sent by F. W. MOORE from the Royal Botanic Gardens, Glasnevin (Anonymous, 1907). At the Holland House show in 1907, the nursery Charlesworth & Co. showed a *Lueddemannia* in flower, as the author quoted "possibly *Lueddemannia lehmanni*" (Anonymous, 1910). Most of such reports about cultivated plants should be treated very carefully, in most cases the identification of a plant belonging to the genus *Lueddemannia* was correct, but very often it is unclear which species it was.

The first colored illustration of *Lueddemannia pescatorei* was published 1855 in the famous Pescatorea, Iconographie des Orchidées (Linden & all., 1855). Interestingly the text was titled *Lueddemannia pescatorei*, the plate itself was named *Cycnoches pescatorei*. Following the text, *Lueddemannia pescatorei* was first collected by Lucien LINDEN in the forests of the savannahs near Chiguara, 1847 it was collected again by LINDEN's collectors FUNCK and SCHLIM near Capacho, departement Merida, Venezuela. PESCATORE's plant and LINDLEY's type of *Cycnoches pescatorei* were originally from this importation.

In 1877 a second species of the genus was described by REICHENBACH in the journal Linnaea as *Lueddemannia wallisii* (Reichenbach, 1877). The plant was collected in January 1874 by Gustav WALLIS in New Granada (Colombia). In a list of his collections in Colombia Gustav WALLIS himself mentioned 1877 in Gartenflora *Lueddemannia wallisii* Rchb.f. as well as *Lueddemannia pescatorei* (Ldl.) Rchb.f. REICHENBACH's description was overseen for a long time, the same species was later on described first as *Moorea irrorata* by ROLFE (Rolfe,1890) and later renamed as *Neomoorea irrorata* Rolfe (Rolfe, 1904). Years later SCHLECHTER realized the identity of ROLFE's *Neomoorea irrorata* and REICHENBACH's much older *Lueddemannia wallisii* and published its correct name *Neomorrea wallisii* (Rchb.f.) Schlechter in his only article in the Orchid Review (Schlechter, 1924). In 1967 some extracts of the diaries of Gustav WALLIS' trip to Colombia in 1868 were published in Orchid Digest (Tachinville & Desko, 1967). WALLIS was sent by LINDEN to collect Orchids and other plants in Colombia, his first account with a *Lueddemannia* was in the garden of Senora Victoriana ESTRADA, we don't know whether he saw there *Lueddemannia*

Lueddemannia pescatorei from Pescatorea. Slide R. Jenny

pescatorei or the species named by REICHENBACH *Lueddemannia wallisii* (today *Neomoorea wallisii* (Rolfe) Schlechter).

In 1880 the third *Lueddemannia* species was described by REICHENBACH in Gardeners' Chronicle (Reichenbach, 1880), *Lueddemannia lehmanni*. The plant was collected in Colombia by F. C. LEHMANN and almost at the same time by Edouard KLABOCH. REICHENBACH wrote: "...Three fine herbarium specimens, two living plants, and a nice sketch prepared in water-colours by the excellent discoverer, are at hand. ...They have salmon coloured sepals and orange petals and lip. It must be a very curious thing." In his herbarium we find the following specimens:

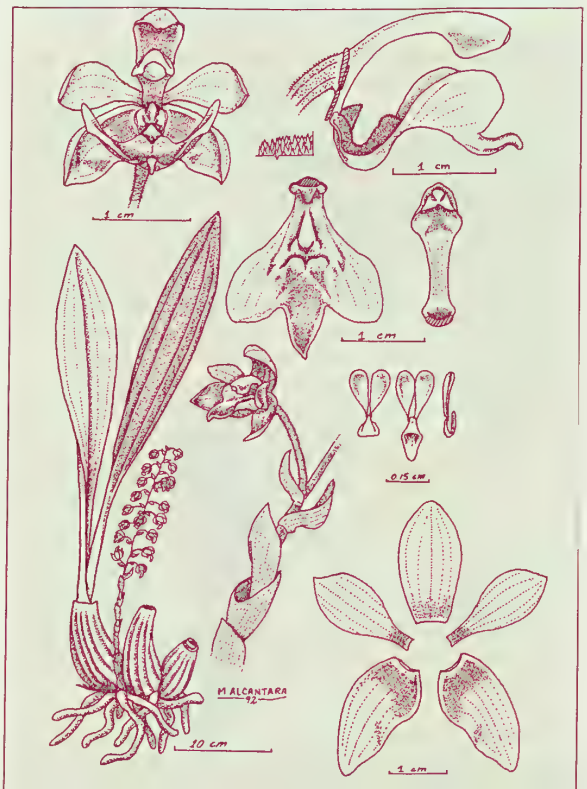
no.44759, type, LEHMANN ?, leaf, inflorescence & flowers
no.44760, LEHMANN, inflorescence, flowers & drawing of the plant
no.44757, KLABOCH, inflorescence & flowers
no.44758, drawing by REICHENBACH, coloured drawing by F. C. LEHMANN, descriptions

It is the place to present a few biographical data of F. C. LEHMANN: Friedrich Carl LEHMANN was mining expert and German Consul in Colombia, beside this he was a very keen plant collector and artist. For a certain time he collected plants for Messrs. Hugh Low & Co in England. LEHMANN worked very close together with Florence WOOLWARD in preparing the manuscripts for the famous Monograph of the genus Masdevallia. LEHMANN married a Colombian lady – Senora Maria Josefa de MOSQUERA – and lived in Popayan, his son was educated in Berlin. It was F. C. LEHMANN who collected the first plants of *Lueddemannia lehmanni* and *Lueddemannia triloba*. He died November 23rd 1903 by crossing the river Timbique. After LEHMANN's dead his widow offered his collections together with all notes and drawings to Kew for the sum of £2,500, at the end Kew (THYSTLETON-DYER) offered £200 and Mrs. LEHMANN accepted. Together with a part of the collections in the hands of LEHMANN's brother in Berlin (after some problems) a total of 3,172 orchid specimens and 500 drawings were integrated in the Kew collection, the notes are bound in three volumes in the Kew library. Duplicates of LEHMANN's dried plants were sold by Kew to different botanical gardens. LEHMANN himself had sent during his active times specimens and drawings also to other botanical gardens in Europe. Many Orchids are named after F. C. LEHMANN, mostly by REICHENBACH who got at several occasions larger consignements from LEHMANN for determination.

It is difficult to judge whether *Lueddemannia lehmannii* is an own species or not, but it is absolutely certain that what LEHMANN had sent and what REICHENBACH described is based on a true *Lueddemannia* and not on a *Cycnoches*. From LEHMANN we have a drawing of a single flower of *Lueddemannia lehmanni* based on a drawing by ROEZL in the posession of SANDER in St. Albans, England. There is enough evidence to prouve that it is absolutely wrong to put REICHENBACH's *Lueddemannia lehmanni* and his *Cycnoches lehmanni* together as synonyms, as it was done by several authors. In 1885 REICHENBACH presented at lecture at the Orchid Conference in London, a part of this lecture dealt with *Lueddemannia* and was later on published in Gardeners' Chronicle (Reichenbach, 1885). REICHENBACH said:

"This so-called "genus" has proved exceedingly vexatious. It was the late SCHLIM who discovered it near Ocana when these were fresh hunting grounds. Direcor LINDEN sent a plant to the late PESCATORE, of La Celle de St. Cloud. There it flowered. I think but one flower is preserved in Dr. LINDLEY's collection. I have four of that typical inflorescence. Dr. LINDLEY took it to be a new *Cycnoches*, an opinion we have seen lately reaccepted by an author, who acting on his own principles , should have avoided doing so, as both the leaves and bulbs are those of an *Acineta* in our plant, while all the *Cycnoches* have them like those of *Catasetum* and *Mormodes*. As soon as I obtained both garden and wild-grown materials I published my genus *Lueddemannia* in honour of my late friend LUEDDEMANN, who had flowered it. Director LINDEN having secured what one then called a great supply, let us say thirty plants, sent them to his correspondents, and acquired, by-the-bye, a certain

Drawing of *Lueddemannia triloba* by M. ALCANTARA from Icones Orchidacearum Peruviarum, 1993. With kind permission of the authors



stoicism in enduring the most unfriendly letters from his customers, who accused him of sending *Acinetas* for *Cycnoches*, and asking for the genuine plant. I believe Mr. Luis SCHLIM sent a second lot, all of which flowered as *Acinetas*. I remember to have seen Mr. KEFERSTEIN, of Kröllwitz bei Halle a. S., quite angry about this, my *Acineta erythroxantha*, which he had paid for as a *Cycnoches*, 1856. Director LINDEN, after having fully acknowledged Mr. SCHLIM's so often proved accurancy, told me all his bad experiences finally adding "je n'y vois que du feu". As to poor SCHLIM, who may have got lettres a cheval from Mr. LINDEN, he expressed his sentence on a label I have, stating, monstre d'un *Peristeria*. The case was nearly forgotten, almighty time had washed away the bad impression.

The genus reappeared with Messrs. VEITCH. A fine rich plant was literally laden with pendent young inflorescences, one of which had developed and proved to appear a fresh *Lueddemannia*, showing fine marks of distinction. Messrs. VEITCH were so very kind to let me have the plant. Unfortunately all the inflorescences perished en route, notwithstanding the excellent packing of the firm, but when the plant flowered next year it showed me the abdominable inflorescence of *Acineta erythroxantha*.

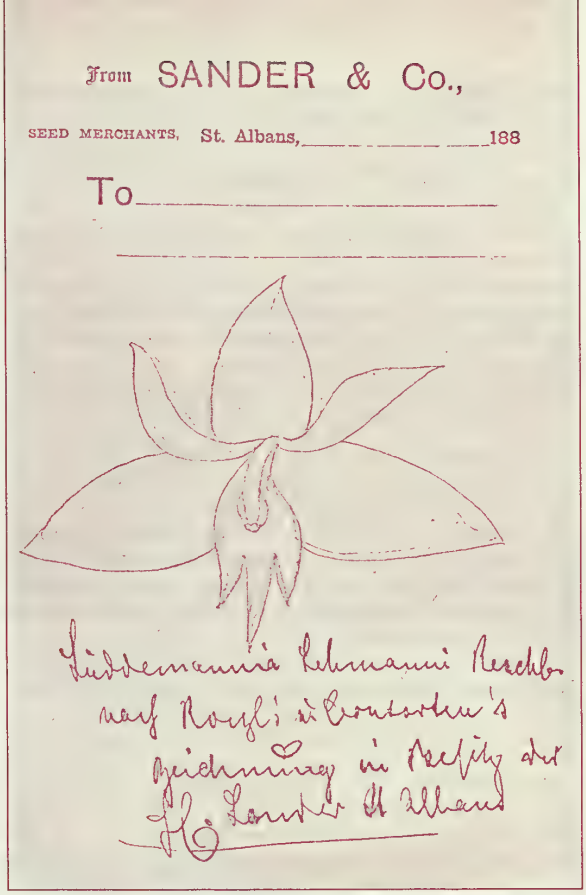
A quite different *Lueddemannia*, the third one, appeared with a stiff erect inflorescence and quite peculiar flowers. It was discivered in January, 1878, by the late WALLIS, who stated that it had the bulb of an *Acineta* and the leaf of a *Peristeria*. I am afraid WALLIS made a mistake. I suppose WALLIS intended to write that it had the bulb of a *Peristeria*, and thus it might be a sexual form of *Peristeria elata*. Grand inflorescences of the old *Lueddemannia pescatorei* were collected and admirably dried for me by Mr. B. ROEZL.

Finally, good plants of *Lueddemannia* were gathered by Messrs. E. KLABOCH and LEHMANN, perhaps on the same spot. I am not sure who came first. The majestic likeness presented at the sale is well known. I was led to regard Mr. LEHMANN's plants as a new type from his representation and description, and the one dried inflorescence. The other inflorescences and two fresh ones proved to be typical L.*pescatorei*. I had the first from Consul KIENAST-ZOELLY, Hirslanden. Zuerich; the other from an English benefactor, whose name will be, I hope, kindly supplied by Mr. F. SANDER, who forwarded me a very well grown grand specimen.

It is my ardent desire to receive once more fresh illustrations of the pleiomorphic state of those flowers which may be sexes of *Acineta*, perhaps also of *Peristeria*. I have obtained well developed seeds from the *Acineta erythroxantha* produced from the *Lueddemannia* of Messrs. VEITCH,. I hope much from the most skilful observer, Herr Consul KIENAST ZOELLY, and of the English gentleman who had such fine flowers. I expect Director LINDEN, of Brussels, will feel a certain satisfaction if reading this note."

Still at this time it was not settled whether *Lueddemannia* should be accepted as own genus or not and whether its species should be included in *Cycnoches*. When BENTHAM and HOOKER published 1883 their Generum Plantarum *Lueddemannia* was not included as own genus (Bentham & Hooker, 1883). Also Berthold STEIN didn't accept *Lueddemannia* as own genus, in his Orchideenbuch he mentioned *Acineta pescatorei* Ldl. and as synonyms *Acineta lueddemanniana*, *Lueddemannia pescatorei* Rchb.f. and *Cycnoches pescatorei* Ldl.. (Stein, 1892). LINDLEY never published a *Acineta pescatorei* and there is no record of a description of *Acineta lueddemanniana* in the literature. STEIN's opinion was repeated by KRACKOWIZER in 1944 (Krackowizer, 1944)

In 1893 ROLFE published some notes about *Lueddemannia* in the Orchid Review (Rolfe, 1893). He mentioned a flowering plant in the Kew collection and additional material from the Botanical Garden Glasnevin. Based on that he concluded that REICHENBACH was right to put the species in an own genus,



Sketch of *Lueddemannia lehmannii* by LEHMANN based on a drawing by ROEZL in posession of SANDER. Slide R. Jenny

clearly separated from *Cycnoches* and he excuse BENTHAM's decision from 1883 to keep the species in *Cycnoches* with the fact that BENTHAM had seen very little material. He also refered to the story of the plant from VEITCH, producing flowers of a new *Lueddemannia* and a year later flowers of *Acineta erythroxantha*. This was the reason of REICHENBACH's assumption that his *Lueddemannia* might be a sexual form of *Acineta*. ROLFE wrote:

> "The flowers of this genus (*Acineta*) are certainly hermaphrodite, which precludes the possibility of their being unisexiual; besides which they have been produced in Europe on numerous occasions, though we have no authentic evidence of the production of a second sex. Such a striking plant is worthy of more extended culture, for we believe that at present it is represented in very few collections."

A second colored illustration of *Lueddemannia pescatorei* was published by Joseph Dalton HOOKER in Curtis's Botanical Magazine in 1890 (Hooker, 1890). The illustrated plant (t.7123) was the same mentioned a year earlier by ROLFE from the collection at Glasnevin, sent in July by MOORE. The original drawing was done by Matilda SMITH, the lithography by John Nugent FITCH. Interestingly enough HOOKER wrote: "....Specimens with the spike upwards of three feet long, and bearing upwards of ninety flowers are known...".

On July 7th 1895 a plant from the collection of Trevor LAWRENCE, Burford Lodge, was presented to the Orchid Committee of the Royal Horticultural Society as "unnamed" *Lueddemannia* and got a botanical certificate. A few months later Trevor LAWRENCE presented the very same plant (November 12th) again, this time as *Lueddemannia triloba* with a receme with 33 flowers and got a FCC (Anonymous, 1895). After the first award in July Trevor LAWRENCE obviously sent flowers to ROLFE in Kew, he described LAWRENCE's plant as *Lueddemannia triloba* in Bulletin of Miscellaneous Information

(Rolfe, 1895a). So the plant had a name for the second presentation to the RHS in November. In December of the same year, ROLFE published in Gardeners' Chronicle (Rolfe, 1895) the first illustration of his new *Lueddemannia triloba*, based on material collected by F. C. LEHMANN and cultivated by Trevor LAWRENCE. In 1993 David E. BENNETT and Eric A. CHRISTENSON published in Icones Orchidacearum Peruviarum (Bennett & Christenson, 1993) a drawing of *Lueddemannia triloba* with erect inflorescences based on a plant collected in Peru, province of Pasco by J. CAMPOVERDE. Beside the fact that this plant had a rect inflorescence, the authors defined the differences to *Lueddemannia pescatorei*:

"*Lueddemannia triloba* has been placed erreonously in the synonymy of L.*pescatorei* (Lindl.) Linden & Reichb.f. It is readily distinguished by the prominent inflated peduncle bracts, the rounded lateral labellum lobes and the smaller floral dimensions. Our plant differs from Rolfe's type by having an erect rather than a pendent inflorescence."

It is unclear how far the erect or pendent inflorescence is typical for the species, as mentioned above already HOOKER wrote about erect inflorescences of *Lueddemannia pescatorei* and the drawing of *Lueddemannia triloba* in Gardeners' Chronicle had definitely a pendent inflorescence.

F. KRAENZLIN described 1897 in Gardeners' Chronicle *Lueddemannia sanderiana*, based on a plant fom SANDER (Kraenzlin, 1897), as explained in a article about the genus *Lacaena* (Jenny, 2004) *Lueddemannia sanderiana* is a Synonym of *Lacaena bicolor* Lindley.

In 1912 Rudolf SCHLECHTER described another species of the genus, *Lueddemannia vyvereana*, based on material from SANDER, St. Albans, imported from Peru, flowered in August 1912. SCHLECHTER only had flowers but no pseudobulbs or leaves. The species was – following SANDER's suggestion – dedicated to the minister for agriculture of Belgium, Van de VYVERE. Differences to *Lueddemannia pescatorei* were – according to SCHLECHTER – the longer base of the lip with the much smaller callus and the lower thickening in the middle of the lip. Unfortunately no type specimen of *Lueddemannia vyvereana* survived the fire in the herbarium of Berlin during the war in 1943. The only reference we have is the drawing published together with the first description (Schlechter, 1912) and repeated by MANSFELD in Feddes Repertorium Beihefte in 1930 (Mansfeld, 1930). In 1913 ROLFE got a plant of a unnamed *Lueddemanniana* from SANDER, collected as *Houlletia* in Peru (Rolfe, 1916). ROLFE thought the plant could be identical with *Lueddemannia vyvereana* Schlechter. In 1918 ROLFE mentioned under the heading "Notes from Kew – IV" in his Orchid Review a plant of *Lueddemannia vyvereana* in the Kew collection, most probabely the same plant he got 1913 from SANDER and which he mentioned in 1916 (Rolfe, 1918). The plant flowered twice (3.7.1916 and 15.5.1918), there are dried flowers of both dates in the Kew herbarium.

Undeterminated *Lueddemannia* from the herbarium REICHENBACH in Vienna (no.10779). Slide R. Jenny

It is an open question whether *Lueddemannia* consists of one single but variable species, or whether there are indeed four different species. Many authors have tried to answer this question, some of them did not even recognize *Lueddemannia* as own genus like P. H. ALLEN in the Flora of Panama in 1949 (Allen, 1949) who mentioned *Lueddemannia* under *Acineta*. Most probabely *Lueddemannia* does not occur in Panama anyway. Alex D. HAWKES had 1953 (Hawkes, 1953) and 1965 (Hawkes, 1965) the same opinion. But P. H. ALLEN is responsible for another mistake, in an extended article about *Cycnoches*, published in several parts in 1952, he mixed up *Lueddemannia lehmanni* Rchb.f. and *Cycnoches lehmanni* Rchb.f. and declared the first as synonym of the later (Allen, 1952). This is – as explained above – certainly wrong, but ALLEN's mistake was repeated on and on by later authors. There are two *Cynoches lehmanni*, one described by REICHENBACH 1878 and the other mentioned by NICHOLLS in 1888. REICHENBACH's plant was a real *Cycnoches*, collected by F. C. LEHMANN in Colombia and described in Otia Botanica Hamburgensis, LEHMANN's specimen is still in the herbarium of REICHENBACH in Vienna. Whether the name represents an own species or not is debatable, but in any case it is a true *Cycnoches*. NICHOLLS plant was clearly based on *Luedddemannia* the name was mentioned 1888 in a gardening dictionary.

Also E. FOLDATS included *Lueddemannia* 1953 in a list of Venezuelan Orchids (Foldats, 1953) in the genus *Acineta*, The next one who treated the genus in a flora was Charles SCHWEINFURTH in the Orchid Flora of Peru in 1960, he mentioned *Lueddemannia triloba* and *Lueddemannia vyvereana* from Peru but explained by himself, he had no fresh material and prepared the descriptions of both species based on the original diagnosis' and figures (Schweinfurth, 1960). *Lueddemannia pescatorei* was obviously recollected somewhen around 1960 in Venezuela, when DUNSTERVILLE and GARAY published 1965 the third volume of Venezuelan Orchids Illustrated (Dunsterville & Garay, 1965) they used a colored photograph as front-cover – the first colored photograph of a *Lueddemannia* published – and delivered a perfect drawing of the species from cultivation. The authors unified all four species of *Lueddemannia*. Under the heading "some Venezuelan monospecific genera – II" Nora and "Stalky" DUNSTERVILLE presented 1978 in the AOS-Bulletin information about *Lueddemannia pescatorei* in Venezuela, three plants have been collected and showed up in culture, one with Carl GAEDE, one with Roberto MEJIA and one with the DUNSTERVILLE's. Obviously the species is widely distributed in Venezuela, although it showed up only from time to time as single plants (Dunsterville, 1978).

E. FOLDATS had the same opinion about *Lueddemannia* when he published the Orchids of the Flora of Venezuela in 1970 (Foldats, 1970), parts of the drawing of *Lueddemannia pescatorei* seems to be identical with DUNSTERVILLE's drawing from 1965. Obviously also SCHWEINFURTH changed 1970 his mind in the first supplement to the Orchids of Peru, he mentioned *Lueddemannia pescatorei* and defined *Lueddemannia vyvereana* and *Lueddemannia triloba* as synonyms (Schweinfurth, 1970). A second colour illustration of *Lueddemannia pescatorei* was pub-

Lueddemannia, drawings of *Lueddemannia* from the collection of Mr. KIENAST-ZOELLY, Mai 1882, Zuerich, Switzerland; and drawing by F. C. LEHMANN no.169, REICHENBACH no.44767. Slide R. Jenny

lished by Alvaro MEJIA and Rodrigo ESCOBAR in the Souvenir Program of the 7th World Orchid Conference in Medellin, Colombia, in 1972 (Mejia & Escobar, 1972). In a short text the authors are mentioning a second species from the western mountain area in Colombia, not identical with *Lueddemannia pescatorei*.

Up to today the discussion whether *Lueddemannia* represents a monospecific genus or not goes on. In his treatment of the *Stanhopeinae* for the third edition of Rudolf SCHLECHTER's Die Orchideen GERLACH accepted only one species *Lueddemannia pescatorei* as valid and the others as synonyms (Gerlach, 1999). He is one of the authors mixing up *Lueddemannia lehmanni* and *Cycnoches lehmanni*. Beside this the genus was described by REICHENBACH alone, the writing *Lueddemannia* Linden & Rchb.f. is wrong, and the same is true for the species, *Lueddemannia pescatorei* (Lindley) Linden & Rchb.f. is wrong.

Pollination:

One of the first interested in the pollination of *Lueddemannia* was S. VOGEL, in 1966 he proposed that *Lueddemannia* would be pollinated by *Euglossini*-bees (Vogel, 1966). In 1976 first drawings of the pollinaria of *Lueddemannia pescatorei* were published by Robert L.DRESSLER (Dressler, 1976 & 1977). A first article about the composition of the fragrance of *Lueddemannia* (and other genera like *Houlletia*, *Paphinia*, *Sievekingia*, *Acineta* and *Lycomormium*) was published in 1984 by WILLIAMS, WHITTEN and DODSON (Williams, Whitten & Dodson, 1984). The fragrance sample of *Lueddemannia* was collected from cut flowers, sent from the collection of F.L.STEVENSON.

Fragrance composition: 70.9 % alpha-pinene
17.7.% unknown
1.4 % unknown
0.9 % beta-pinene
0.6 % unknown
8.5 % 1.8-cineole

A second article about the fragrance of *Lueddemannia pescatorei* followed 1991 by GERLACH and SCHILL (Gerlach & Schill, 1991).

Fragrance composition: 5 % Unknown
75 % Caryophyllene
6 % 1.8-cineole
10 % alpha-pinene

The composition is very different compared with the results from WILLIAMS, WHITTEN and DODSON from 1984. The sample of GERLACH and SCHILL was collected from a plant in cultivation in the collection of the Botanical Garden Heidelberg. Unfortunately neither information about the origin nor drawings or photos of the two plants used for the fragrance analysis have been published, so it is rather difficult to explain the differences:

- not both samples have been taken from living material (cut-flowers in one case)
- deviation in the analysis itself (sampling procedure, equipment, analytical process)
- the origin of the sampled plants is not known
- identification is not possible because no drawings or photographs are published
- *Lueddemannia* consists of more than one species (at least different concerning pollinators)
- putative species in the genus are morphologically very similar, but have different pollinators

Certainly it would be interesting to have more material of *Lueddemannia* from it's large distribution area (Colombia, Venezuela, Ecuador and Peru) available for fragrance analysis and direct comparison of morphology. Unfortunately *Lueddemannia* is still very seldom seen in cultivation and – as usual – of most of the plants there are no records about its origin available.

Flowers of *Lueddemannia* are so-called gullet-flowers where the bee enters to collect fragrance and while leaving, the pollinarium becomes glued on the back of the bee, it is basically the same pollination mechanism as in *Acineta* and *Lacaena*. Up to today the actual active pollinator is not known, although *Lueddemannia* is most probably pollinated by male bees from the family *Euglossinae*.

Anatomy:

Norris H.WILLIAMS published 1979 a study about anatomy (subsidiary cells) of Orchids, he included also information about *Lueddemannia pescatorei* (Williams, 1979). In 1999 STERN and WHIITEN published a paper about the anatomy of the *Stanhopeinae*, including *Lueddemannia* (Stern & Whitten, 1999).

Systematics & Taxonomy

In the modern system of the Orchid family, the genus *Lueddemannia* belongs together with very close allied genera like *Acineta* and Vasqueziella in the subtribe *Stanhopeinae*. This relationship – long known based on morphological features – was confirmed by molecular data published 2000 by WHITTEN; WILLIAMS and CHASE (Whitten, Williams & Chase, 2000). When SZLACHETKO 1995 created the subtribe Coeliopsidinae, based on Coeliopsis Rchb.f., he included beside *Peristeria* and *Lycomormium* also the genera *Lueddemannia* and *Lacaena* (Szlachetko, 1995). Concerning Coeliopsis, *Peristeria*

Drawing of *Lueddemannia pescatorei* or *Lueddemannia lehmannii* from John DAY in his scrap-books (21.May 1885). Slide R. Jenny. With the permission of her Majesty's stationary officer and the Royal Botanic Gardens Kew

and *Lycomormium* the decision is acceptable, but *Lueddemannia* and *Lacaena* are certainly belonging to the *Stanhopeinae*. SZLACHETKO himself published 1995 a correction of his transfer of *Lacaena*, but obviously he overlooked *Lueddemannia*. As explained above, molecular and morphological data are supporting very clearly the belonging of *Lueddemannia* to the subtribe *Stanhopeinae*.

The following taxa have been described or mentioned in connection with the genus *Lueddemannia* Rchb.f.:

Acineta glauca Linden ex Lindley & Paxton Paxtons Flower Garden 1:123.1851 Synonym of *Lueddemannia pescatorei*

Acineta luddemanniana hort. ex Stein in B.STEIN, Orchideenbuch 1892:54 Synonym of *Lueddemannia pescatorei*

Acineta pescatorei hort. ex Stein In B.STEIN, Orchideenbuch 1892:54 as *Acineta pescatorei* Ldl. Synonym of *Lueddemannia pescatorei*

Cycnoches lehmanni Nicholls (non Rchb.f.) Dict.Gard. 1:417.1888 Synonym of *Lueddemannia lehmanni*

Cycnoches lindleyi hort. Gardener's Chronicle 1851:392 Synonym of *Lueddemannia pescatorei*

Cycnoches pescatorei Lindley & Paxton Paxton's Flower Garden 1:123.1851 Synonym of *Lueddemannia pescatorei*

Lueddemannia Rchb.f. Bonplandia 1:281.1854

Lueddemannia lehmannii Rchb.f. Gardeners' Chronicle new ser.14:685.1880

Lueddemannia pescatorei (Lindley & Paxton) Rchb.f. Bonplandia 1:281.1854

Lueddemannia sanderiana Kraenzlin Gardeners' Chronicle ser.3.22:138.1897 Synonym of *Lacaena bicolor* Lindl.

Lueddemannia triloba Rolfe Bulletin of Miscellaneous Information 1895:283

Lueddemannia wallisii Rchb.f. Linnnaea 41:109.1877 Basionym of *Neomoorea wallisii* (Rchb.f.) Schlechter

Lueddemannia vyvereana Schlechter Orchis 6:113.1912

Moorea irrorata Rolfe Gardeners' Chronicle, ser.3,8:7.1890 Synonym of *Neomoorea wallisii* (Rchb.f.) Schlechter

Neomoorea irrorata (Rolfe) Rolfe Orchid Review 12:30.1904 Synonym of *Neomoorea wallisii* (Rchb.f.) Schlechter

Neomoorea wallisii (Rchb.f.) Schlechter Orchid Review 32:355-356.1924

Peristeria monstra Schlim (nomen nudum) Herb.Rchb.f. no.44772 Synonym of *Lueddemannia pescatorei*

Herbarium specimens (selection):

Lueddemannia pescatorei, Colombia, Frontino, coll.ROEZL, REICHENBACH no.44768, 44769 & 44770 **(W-R!)**

Lueddemannia pescatorei , ex cult.PESCATORE, REICHENBACH no.44771 **(W-R!)** Isotype of LINDLEY's *Cycnoches pescatorei*

Lueddemannia pescatorei, Ocana, 6000 f, col. SCHLIM no.1194, as *Peristeria monstra*, REICHENBACH no.44772 **(W-R!)**

Lueddemannia wallisii, col.WALLIS, Type of *Lueddemannia* (later *Neomoorea*) *wallisii*, REICHENBACH no.44762 **(W-R!)**

Lueddemannia wallisii, col.WALLIS, drawing only, REICHENBACH no.44763 **(W-R!)**

Lueddemannia lehmanni, col. F. C. LEHMANN, Type, REICHENBACH no.44759 **(W-R!)**

Lueddemannia lehmanni, col. F. C. LEHMANN, REICHENBACH no.44760 **(W-R!)**

Lueddemannia lehmanni, Colombia, 4 – 5000 f. col.KLABOCH, 1880; includes

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flowers from *L.lehmanni* ex cult.KIENAST-ZOELLY, Zuerich, Switzerland, REICHENBACH no.44757 (**W-R!**)
Lueddemannia lehmanni, drawing by F. C. LEHMANN of type, REICHENBACH no.44758 (**W-R!**)
Lueddemannia, drawings of *Lueddemannia* ex cult.KIENAST-ZOELLY, Mai 1882, Zuerich, Switzerland; and drawing by. F. C. LEHMANN no.169, REICHENBACH no.44767 (**W-R!**)
Lueddemannia, drawing, unknown origin, REICHENBACH no.10779 (**W-R!**)
Lueddemannia pescatorei 'Mary Waldorf', Colombia, sin.loc, ex cult.M.Lecoufloe, 1.9.1989 (Herb.Jenny)
Lueddemannia pescatorei, Colombia, Narino, Ricaurte, 1400 m Alt., coll. E.WALDVOGEL, ex cult. Herrenhäuser Gärten, 4.6.1991 (Herb.Jenny)
Lueddemannia triloba, ex cult. Trevor LAWRENCE, Holotypus, ROLFE s.n. (**K!**)
Lueddemannia triloba, ex cult. SANDER, St.Albans, 5.1896 (**K!**)
Lueddemannia pescatorei, ex cult. Kew, 6.1893 (**K!**)
Lueddemannia pescatorei, ex cult. Bot.Gard.Glasnevin 7.1889, sent by MOORE to Kew (drawing for Curtis's Bot.Mag.t.7123 by Matilda SMITH) (**K!**)
Lueddemannia vyereana, ex cult. Kew, 3.7.1916 (**K!**)
Lueddemannia vyereana, ex cult. Kew, 25.5.1918 (**K!**)
Lueddemannia pescatorei, ex cult. Bot.Gard.Glasnevin 5.1889, sent by MOORE to Kew (**K!**)
Lueddemannia pescatorei, ex cult. Bot.Gard.Glasnevin 22.7.1899, sent by MOORE to Kew, ROLFE s.n. (**K!**)
Lueddemannia pescatorei, New Grenada (**K!**)
Lueddemannia lehmanni, Colombia, W%lder am Rio Pablo und San Miguel de Chucunes, 1000 – 1500 m, col. F. C. LEHMANN no.27, 10.7.1880 (**K!**)
Acineta glauca Linden & *Lueddemannia pescatorei* as *Cycnoches pescatorei* (**K!**)

Distribution:

Lueddemannia triloba was described based on material from Peru, *Lueddemannia vyvereana* and *Lueddemannia lehmanni* on material from Colombia and *Lueddemannia pescatorei* is known from Colombia and Venezuela. So the genus *Lueddemannia* is distributed in Southamerica in the states Colombia, Venezuela, Ecuador and Peru. If *Lueddemannia* consists only of one species – *Lueddemannia pescatorei* – it would be absolutely normal to find a certain variability in such a large distribution area, variability in terms of color, size and morphological features.

It is interesting to know that *Lueddemannia* seems not to form populations, only single plants can be found (according the literature and pers.comm. with collectors).

Etymology

gigas	for gigantic (size of the plant in this case)
glauca	for blue, most probabely after the blueish leaf-surface
lehmanni	dedicated to F. C. LEHMANN, collector of the plant
lindleyi	dedicated to John LINDLEY, Orchidist at Kew
Lueddemannia	dedicated to Gustav Adolf LUEDDEMANN, gardener for PESCATORE
moorea	dedicated to Sir Frederick William MOORE, director of the Glasnevin Botanical Garden
neomoorea	"the new *Moorea*", *Moorea* was already used as generic name, so ROLFE had to change it
pescatorei	dedicated to Jean-Pierre PESCATORE, owner of a large Orchid collection
vyvereana	dedicated to Mr. Van de VYVERE, at that time minister for agriculture of Belgium
wallisii	dedicated to Gustave WALLIS, Orchid collector for LINDEN

Awarded plants:

Quite a few plants of *Lueddemannia* were awarded during the years, of most of them we don't have illustrations or accurate descriptions, so it is not possible to decide in each case what particular species was awarded.

Lueddemannia spec ("*triloba*") 9.7.1895, Botanical Certificate RHS, Trevor LAWRENCE

Lueddemannia lehmannii 12.5.1885, FCC/RHS, Trevor LAWRENCE

Lueddemannia triloba 12.11.1895, FCC/RHS, Trevor LAWRENCE

Flowers of *Lueddemannia pescatorei*. (Slide P. Harding)

Lueddemannia pescatorei 27.4.1897, CCC/RHS, J.J.JOICEY

Lueddemannia lehmannii 31.5.1899, CCC/RHS, J.J.JOICEY

Lueddemannia pescatorei 12.6.1906, Botanical Certificate RHS, Miss WILLMOTT

Lueddemannia pescatorei 'Tenche' CBM/AOS, October 1975

Lueddemannia pescatorei 'Mary Waldorff' 23.5.1988 AM/RHS, Vacherot-Lecoufle, painting (flowers) by Cherry-Anne LAVRIH

Lueddemannia pescatorei 'Alba Luz' AM/AOS 6.October 1994, Tulua, Colombia

Lueddemannia pescatorei 'Amira' AM/AOS 29.March 2000, Medellin, Colombia (Socrates Forero Beltran & Jardin Villa Andrea

Lueddemannia pescatorei 'Juanita' CCO July 2001, Medellin, Colombia (Jardin Villa Andrea)

Lueddemannia pescatorei, 58th International Orchid show, Miami, March 2003, Gold-medal, Socrates Forero Beltran

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AOR 173

Orchid Awards and Portraits

by Brian Milligan

Quality awards were first granted specifically for orchids in 1889 when the Royal Horticultural Society (established in England in 1809) appointed an Orchid Committee comprising a body of acknowledged orchid experts to serve as judges. This same Committee (with different judges!) is still granting orchid awards today. Until recently the RHS Orchid Committee did not travel – to receive an award an orchid had to be presented to the judges at the RHS Orchid Room in London, the only exception being at the annual Chelsea Flower Show.

Since 1896 a pictorial record of all orchids awarded by the Orchid Committee has been maintained by the RHS in the form of watercolour paintings, usually of a selected single flower. The first paintings were made by Nellie Roberts, at age 17 years. If I remember correctly, a member of the Committee recommended her on the basis of some of her pictures displayed in her father's shopfront. Members of the Committee were so happy with her work that she continued in the role of their official orchid painter for the next sixty years! All these paintings, together with more recent ones up to the present day, are kept in the Orchid Room where they are immediately accessible whenever an orchid is presented for judging. Colour photography notwithstanding, watercolour paintings of all orchids awarded by the RHS Orchid Committee are still made to this day! Nellie Roberts painted thousands of awarded orchids during her term of service and the number of paintings in the collection today exceeds 6000.

For the last fifty years or more, most other orchid judging panels around the world have relied on colour photographs, usually colour slides, to document their awards. In the early days Kodak film was regarded as providing results that were closest to nature, and Kodachrome film was often specified. Only in recent years have other types of colour slide been acceptable. In fact Kodachrome slide film is seldom used today because of the recent necessity to send it abroad for processing.

Members of the OSCOV Judging Panel have recently been discussing the wisdom or otherwise of accepting colour pictures taken by digital photography, which seems almost certain to replace colour film in the near future. A major disadvantage of digital photography is the ability to change the original colour of the image so easily – creation of a blue cymbidium is simpler than you may think (even a mouse can do it!). However, we may be forced to accept digital photography if colour slide film becomes obsolete. A possible solution to the problem might be to include a colour scale comprising all colours of the rainbow in each picture, but even that safeguard against colour manipulation is not foolproof. I foresee interesting times ahead for the Judging Panel!

Brian Milligan
North Balwyn, Victoria

Tropical Queensland Orchid Council

The Tropical Queensland Orchid Council held its annual show and conference this year in Mackay, with the host society being the Mackay and District Orchid Society. It was held in early June over the Queens Birthday Long Weekend. It was a wonderful conference with close to 200 registrants, and an impressive show, with lots of vandaceous orchids, hardcane dendrobiums and miscellaneous genera.

It was a very friendly and well organised conference, a credit to Peter & Wendy Crook and the committee and members of the Mackay and District Orchid Society. The hospitality was first class!

The Cocktail Party was held at the Mackay Botanic Gardens on the Friday night, and was very well attended, and a great opportunity to catch up with old and new friends. The Mackay City Council got right behind the conference and assisted greatly with publicity, hardware and logistics. Mackay Mayer Julie Boyd welcomed registrants and visitors to Mackay and wished them an enjoyable and memorable stay over the weekend. She later presented the local orchid society with a framed watercolour of the spider orchid – *Dendrobium tetragonum* var. *giganteum*, an orchid that grows naturally just north of Mackay.

The lecture programme was well attended, and featured a mix of topics. Wolfgang from Horticultural Solutions spoke on plant nutrition, Ross Maidment on the past, present and future of orchid growing, Kevin Butler on albino *Paphiopedilum* species and I delivered a PowerPoint presentation on the World of Species Orchids. There were a number of greenhouse visits on the Sunday. Some registrants took the opportunity of visiting the pristine Eungella National Park to view a variety of native orchids in the wild. I was pleased to see the famous tree, which features in one of the late Jim Rentoul's books, covered in *Dendrobium speciosum* subsp. *curvicaule*.

The dinners were superb, with well over 200 in attendance on each occasion. On the Saturday night, I was given the honour of being the after dinner speaker (and heckled by Sam!), and everyone seemed to have a good time with some lighthearted banter along the way. At the time, Queensland was one up in the best of three State of Origin rugby league series, and they let me know it! (New South Wales did however win the series 2-1, sorry had to throw that in!). There was also an "endless" auction

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Mackay Mayor Julie Boyd, Peter Crook (President of Mackay and District Orchid Society) and David Banks with the painting (of *Dendrobium tetragonum* var. *giganteum*) presented to the Society from Mackay City Council, who were tremendous supporters of the 2005 TQOC Conference.

on the Sunday night, with lots of plants and goodies changing hands at very cheap prices.

Next years event is to be in Townsville, and if this conference was any guide, obviously an event not to be missed. Thank you North Queensland for your friendship and hospitality.

David P. Banks
dpbanks@ozemail.com.au

Formation of a New Orchid Club

The Batemans Bay Orchid and Foliage Society Inc. was formed at its first meeting on the 7th February 2005.

Club meets at the Salvation Army Hall in Bavarde Avenue, Batemans Bay on the first Monday of the month (except January) at 7.00pm. Club President is Ron Moore.

We hope that the friendliness of the orchid growing community will be shared amongst all of our club members and the readers of Australian Orchid Review.

For further information you may contact Ron Boyd, Club Secretary, on email rosy@acr.net.au.

Another Successful Victorian International Orchid Fair

The Victorian International Orchid Fair was held in late May again this year in the huge St. Sava's Church Hall at Greensborough, a northern suburb of Melbourne. Its location provides easy freeway access, particularly to those patrons coming from northern and western suburban and country areas, and also to interstate vendors from New South Wales, Queensland and South Australia. This three-day event in late May proved to be just as popular again this year as did the inaugural event last year. When I arrived at the venue on the first morning, I found that the large car park was almost full, and the hall packed with customers already loaded with purchases. From the raised entrance foyer, I was met by a colourful mass of orchids in flower, a sight not normally encountered until the height of the orchid season in September. There were over twenty commercial vendors, several from interstate. In addition to orchids, one could also buy collectable plants including bromeliads, carnivorous plants, clivias, etc and a wide range of plant accessories such as pots, baskets, mounts, pot hangers and plant labels. The bookstall (Orchidaceous Books), which featured a wide range of books on orchids and other plants, was especially popular. We hope to see this popular event return again next year.

Brian Milligan
North Balwyn, Victoria

Maclean District Orchid Society

The Maclean District Orchid Society did not disappoint the public with the glorious Autumn Show display put on by the members in the Maclean Bowling Club foyer over the weekend of May 13 & 14. There were entries coming from Woolgoolga in the south to Iluka in the north. Thanks to all who displayed their orchids and to the judges who travelled to Maclean on what was a miserable evening. They commented on the high quality of orchids benched. We all went home better informed and re-enthused to work at improving our orchids for the coming spring show in September. The Grand Champion went to G. & D. Moran with a very nice example of *Brassocattleya* Donna Kimura 'Paradise Tami' (C. Princess Bells x Bc. Mount Anderson) while Reserve Champion was taken out by B. Newman with *Dendrobium* C K Ai 'Oka' a much travelled plant, having been in two other shows before being benched here. There were 236 plants tabled by twenty growers, a fine effort despite the dry conditions.

Ken Woods.
jakewo149@hotmail.com

Lou Sasso 100 Not Out

On 24th May 2005, Lou Sasso, a respected member of the Australian orchid community, achieved the milestone of celebrating his 100th Birthday. To mark this auspicious occasion, Lou was presented with a suitably inscribed memento of the occasion the following evening at the monthly meeting of Cumberland Orchid Circle, of which he has been a long-time member and still actively exhibits at shows. Cumberland's patron, Gordon Hansen, then recounted to members some of his memories of Lou and his long involvement with orchids, including terms as President of the Orchid Society of New South Wales, and the many awards he had won with his prize-winning orchids. Lou then blew out the candles on a birthday cake while members sang Happy Birthday to him. At the break, Lou showed members the congratulatory messages he received from the Queen, the Governor General and the State Governor while members enjoyed his birthday cake. Congratulations on this milestone Lou from the members of Cumberland Orchid Circle and hope we can celebrate many more birthdays with you.

Alan Kerruish,
Baulkham Hills, NSW

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AOR 119

New Orchid Hybrids

January – March 2005 REGISTRATIONS

Supplied by the Royal Horticultural Society as International Cultivar Registration Authority for Orchid Hybrids

NAME	PARENTAGE	REGISTERED BY
		(O/U = Originator unknown)
AERIDES		
Edward	*Aer. quinquevulnerum* x *Aer.* Amy Ede	Singapore Bot.Gdn.
ALICEARA		
Kauai's China Oka	*Brsdm.* Chinatown x *Alcra.* Dorothy Oka	Yamada Nursery
Royal Ebony	*Mtssa.* Royal Robe x *Onc. leucochilum*	Paradise [NZ]
Woodland's Dazzler	*Mtssa.* Cairns x *Onc.* [*Odm.*] *hastilabium*	Woodland
ARACHNOSTYLIS		
Silver Jubilee	*Arach.* [*Amm.*] *labrosa* [*labrosum*] x *Rhy. retusa*	Saleem & Sathish
ASCOCENDA		
Alf Steel	*Ascda.* Viravudh x *Ascda.* Tubtim Velvet	A.Steel
Banjong Fantasy	*Ascda.* Duang Porn x *Ascda.* Yip Sum Wah	Banjong Orch.
Devvon Holst	*V. coerulea* x *Ascda.* Tubtim Velvet	R.F. Orchids(Patsanan)
Duang Kaew	*Ascda.* Thananbarg x *V.* Sankamphaeng	T.Orchids
Frosty Moon	*V.* Darres' Golden Heritage x *Ascda.* Suksamran Gold	D.Grove(Udom Orch.)
Henry Oakeley	*V.* Mimi Palmer x *Ascda.* Fiftieth State Beauty	Singapore Bot.Gdns
Joanne Jones	*Ascda.* Lenachai x *V.* Gordon Dillon	R.F. Orchids(Patsanan)
Kathi Holst	*V. denisoniana* x *Ascda.* Larry Katz	R.F. Orchids
Lena Kamolphan	*V.* Bitz's Heartthrob x *Ascda.* Lenachai	S.Chuapong
Lese's Sunshine	*Ascda.* Theptong x *Ascda.* Guo Chia Long	T.Coffey(R.F. Orchids)
Merinda Magic	*Ascda.* Fuchs Joy x *V.* Black Widow	M.Edgerton
Papon	*V.* Tanu Gold x *Ascda.* Suksamran Spots	P.Chindavat
Viboon Sunset	*Ascda.* Thai Spots x *Ascda.* Bangkhuntian Gold	Viboon
ASPOMESA *		
Saron's Delight	*Asp. lunata* x *Gom. crispa*	J.P.Waldock
BEALLARA		
Royal Fire	*Mtssa.* Royal Robe x *Oda.* Fireflower	Everglades
BRASSIDIUM		
Lois Huffman	*Brsdm.* [*Odbrs.*] Kenneth Bivin x *Brs.* Edvah Loo	J.Huffman(K.Kimmerle)
BRASSOCATTLEYA		
Memoria Stewart Mackay	*Bc.* Memoria Ruth Moon x *C.* Portiata	R.Shoesmith
Misty Morn	*C.* Portia x *Bc.* Déesse	K.& B.Beale
Miura Otome	*Bc.* Maikai x *Bc.* Mount Hood	M.Inamine
Orquidacea's Minuto Mistico	*C.* Primatria x *Bc.* Innocence Ann	R.Giorchino
Susan Edwards	*C.* Loddiaca x *Bc.* Pink Cloud	G.Spence
Yuan Nan Beauty	*Bc.* Connie Warne Bowden x *C.* Pradit Spot	V.Boonyuenvetwat
Yuan Nan Fire Lip	*Bc.* Connie Warne Bowden x *C.* Netrasiri Beauty	V.Boonyuenvetwat
Yuan Nan Magic	*Bc.* Lighting Bug x *C.* Pradit Spot	V.Boonyuenvetwat
BRASSOCHILUM		
Rustic Goliath	*Bss.* [*Brsdm.*] Medellin Miracle x *Cyr.* [*Onc.*] *macranthum*	H.Liebman
BRASSOEPIDENDRUM		
Kan Yuet Him	*B. nodosa* x *Epi. cinnabarinum*	Woon Leng Nurs.
BRASSOLAELIOCATTLEYA		
Ahchung Beauty	*Blc.* Haw Yuan Beauty x *Lc.* Purple Cascade	Ahchung Orch.
Ahchung Green	*Blc.* Young Kong x *Blc.* Magic Meadow	Ahchung Orch.
All About Eve	*Blc.* Haw Yuan Moon x *Blc.* Eve Marie Barnett	C.K.Suzuki
Amber Tassie	*Lc.* Amber Glow x *Blc.* Tassie Barbero	C.K.Suzuki
Boonyarit Sunset	*Lc.* Jourtip x *Blc.* Korat Sunset	B.Metheekasiwat
Bright Asuka	*Bc.* Maikai x *Lc.* Bowri-Albida	M.Okauchi
Chang Jhih Bonny	*Blc.* Jeremy Island x *Blc.* Guanmiau City	Wei Ming Lee(Wan Yi Guo)
Chang Jhih Grape	*Blc.* Bryce Canyon x *Blc.* Guanmiau City	Wei Ming Lee(Wan Yi Guo)
Dal's Candy	*Blc.* Golden Flare x *Blc.* Goldenzelle	J.Martin(D.& B.Littman)
Dal's Islander's Girl	*Bc.* Island Charm x *Blc.* Dal's Girl	J.Martin(D.& B.Littman)
Dal's Select	*Blc.* Mount Sylvan x *Blc.* Tribute	J.Martin(D.& B.Littman)
Dal's Tribute	*Blc.* Tribute x *Blc.* Sylvia Fry	J.Martin(D.& B.Littman)
E. Wenzel	*Blc.* Orquidacea's Chris Magic x *Blc.* Sun King	R.Giorchino(E.Wenzel)
Gayle's Hero Mac	*Blc.* Ruth Davis x *Lc.* Zuki Niglla	B.N.Jones
Hsinying Chaffinch	*Blc.* Nanhai Chaffinch x *Blc.* Ports of Paradise	Ching Hua
Ismael Nilton Vischi	*C. granulosa* x *Blc.* Enid Moore	I.Vischi
Jean's Hope	*Blc.* Memoria Benigno Aquino x *Blc.* Lynn Spooner	Jean Mitchell
Jennifer Emy Sakamoto	*Blc.* Helio Maurício Bittencourt x *Blc.* Julio Barbero	S.Barani
Kelly Hoehn	*Bc.* Déesse x *Blc.* Ruben's Gem	J.Grezaffi
Li Jiuan Love	*C.* Cherry Chip x *Blc.* Hsinying Catherine	Li Jiuan Orch.
Li Jiuan Orange	*Blc.* Waikiki Gold x *Lc.* Scarlet Imp	Li Jiuan Orch.
Lo's Grand Taffeta	*Lc.* Orglade's Grand x *Blc.* Orglade's Taffeta	Lo's Orchids
Love Adventure	*Blc.* Love Silence x *Blc.* Love Sound	R.B.Cole(Long Life[USA])
Lovely Toshie	*Blc.* Love Sound x *Blc.* Toshie Aoki	H & R
Lynn's Delight	*Blc.* Memoria Henry Palmer x *C.* Lynn Spencer	Rex Foster Orchids
Malvarosa Coed	*Blc.* Coed x *C.* Netrasiri Fireball	Malvarosa
Malvarosa Ruby	*C.* Netrasiri Fireball x *Blc.* Malvarosa Princess	Malvarosa
Malvarosa Sunset	*Blc.* Waikiki Sunset x *Blc.* Malvarosa Princess	Malvarosa
Memoria Henry Palmer	*C.* Margaret Hort x *Blc.* Sylvia Fry	Rex Foster Orchids(O/U)
Memoria Juliana Basic	*Blc.* Waikiki Gold x *Blc.* Wattana Emperor	R.Giorchino(C.K.Suzuki)
Memoria Malai Thong	*Blc.* Chulita x *Blc.* Ploenpit Golden Delight	N.Klinkusoom
Michelle Rehfield	*Blc.* Pat Wood x *Lc.* Chicanery	Santa Barbara(J.Rehfield)
Mini Suzuki	*Blc.* Haw Yuan Moon x *Lc.* Yoshico Suzuki	C.K.Suzuki
Mother Rin	*C.* Candy Tuft x *Blc.* Feeling Love	K.Taguchi
Nakornchisri Sunset	*Blc.* Bryce Canyon x *Blc.* War Chant	Y.Veerawattanamas(O/U)
Nanhai Chaffinch	*Blc.* Golden Slippers x *Lc.* Paris Mountain	Ching Hua(O/U)
Nobile's Bohemian	*Blc.* Odila Piccin x *Lc.* Adolpho Menezes	S.Barani
Nobile's Cigana	*C.* Lulu x *Blc.* Reina Criolla	S.Barani
Nobile's Exotica	*Blc.* Julio Barbero x *Blc.* Nobile's Carnival	S.Barani
Nobile's Gala	*Blc.* Roberto Cardoso x *Lc.* Irene Finney	S.Barani
Nobile's Golden Belle	*Blc.* Helio Maurício Bittencourt x *Blc.* Ademar Manarini	S.Barani
Nobile's Goldfish	*Blc.* Helio Maurício Bittencourt x *Blc.* Hawaiian Galaxy	S.Barani
Nobile's Lipstick	*Blc.* George Suzuki x *Lc.* Royal Emperor	S.Barani
Nobile's Mercury	*Lc.* Carolina Frota x *Blc.* George Suzuki	S.Barani
Nobile's Ouro Velho	*Blc.* My Friend Kirihara x *L. tenebrosa*	S.Barani
Nobile's Pink Dancer	*Blc.* Odila Piccin x *Lc.* Maria Aparecida Barani	S.Barani
Nobile's Scorpion	*L. tenebrosa* x *Blc.* Nobile's Bruno Bruno	S.Barani
Nobile's Sensual	*Blc.* Glorious Innocence x *Lc.* Maria Aparecida Barani	S.Barani
Nobile's Starlux	*Blc.* Julio Barbero x *Blc.* Hawaiian Treasure	S.Barani
Nobile's Suprema	*Blc.* Lourdes Panucci x *Lc.* Beatriz Künning	S.Barani
Orquidacea's American Baby	*Bc.* Orglade's Pink Paws x *Lc.* Rolf Altenburg	R.Giorchino
Orquidacea's Black Chief	*Blc.* Haw Yuan Moon x *Blc.* Oconee	R.Giorchino
Orquidacea's Bonitinha	*Blc.* Julio Barbero x *L. briegeri*	R.Giorchino
Orquidacea's Butterfly	*Blc.* Cadmium Light x *C.* Wild Splash	R.Giorchino
Orquidacea's Captain Halo	*C.* Dinah x *Blc.* Roberto Giorchino	R.Giorchino
Orquidacea's Caracolito	*Lc.* Maria Aparecida Barani x *Blc.* June Bells	R.Giorchino
Orquidacea's Chiquitita	*Lc.* Doc Stacy x *Blc.* Julio Barbero	R.Giorchino
Orquidacea's Chris Magic	*Blc.* Julio Barbero x *Blc.* Memoria George Suzuki	R.Giorchino
Orquidacea's Dancing Lady	*Blc.* Haw Yuan Moon x *C. guttata*	R.Giorchino
Orquidacea's Emigration	*Blc.* Malworth x *Blc.* Nugget	R.Giorchino
Orquidacea's Fashion Melody	*Blc.* Golden Peacock x *Blc.* Waikiki Gold	R.Giorchino
Orquidacea's Girl	*Lc.* Edgard Van Belle x *Blc.* Waikiki Gold	R.Giorchino
Orquidacea's Green Gold	*Blc.* Malworth x *Blc.* Haw Yuan Moon	R.Giorchino
Orquidacea's Intermezzo	*Blc.* Roberto Giorchino x *Blc.* Plácido Barani	R.Giorchino
Orquidacea's Ladonna Emobile	*Blc.* Dark Waters x *C.* Orquidacea's Capital Federal	R.Giorchino
Orquidacea's Legal Exotic	*Blc.* Julio Barbero x *C. guttata*	R.Giorchino
Orquidacea's Melody	*Lc.* Cynthia x *Blc.* Roberto Cardoso	R.Giorchino
Orquidacea's Mia Sorela	*Blc.* Memoria Crispin Rosales x *Lc.* Orquidacea's New Devil	R.Giorchino
Orquidacea's New Moon	*Blc.* Dark Waters x *Blc.* Roberto Giorchino	R.Giorchino
Orquidacea's New Wave	*Lc.* Rolf Altenburg x *Blc.* Tania Maria França	R.Giorchino
Orquidacea's Nice Love	*Blc.* Enid Moore x *Blc.* Orquidacea's Settin Doll	R.Giorchino
Orquidacea's Night America	*Blc.* Roberto Giorchino x *Lc.* Ronnie Von	R.Giorchino
Orquidacea's Nona Bruja	*Blc.* Waikiki Gold x *L.* Seagull	R.Giorchino
Orquidacea's Purple	*Lc.* Memoria Jair Leaó x *Blc.* Oconee	R.Giorchino
Orquidacea's Rare Bird	*Blc.* Memoria George Suzuki x *Blc.* Haw Yuan Moon	R.Giorchino
Orquidacea's Roma Star	*Blc.* Enid Moore x *Lc.* Nertigues	R.Giorchino

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Orquidacea's Settin Doll	*Blc.* Enid Moore x *Blc.* Captain Pessoa	R.Giorchino
Orquidacea's Sparkler	*Blc.* Malworth Stars x *Blc.* Memoria George Suzuki	R.Giorchino
Orquidacea's Splash Dolphin	*C.* Wild Splash x *Blc.* Orquidacea's Green	R.Giorchino
Orquidacea's Sunny's Baby	*Blc.* Tania Maria França x *Blc.* Roberto Giorchino	R.Giorchino
Orquidacea's Sweet Rain	*Lc.* Nertigues x *Blc.* Roberto Cardoso	R.Giorchino
Orquidacea's Winter Sunset	*Blc.* Plácido Barani x *Lc.* João Antonio Nicoli	R.Giorchino
Orquidacea's Yellow Doll	*Blc.* Haw Yuan Moon x *Blc.* Orglade's Sparkle	R.Giorchino
Purple Kotan	*L. praestans* x *Blc.* Pastoral Sound	T.Yuhora
Redland Adventure	*Bc.* Island Charm x *Blc.* Blumen Insel	L.Sakrzewski
Redland Appraisal	*Blc.* Memoria Helen Brown x *Blc.* Dal's Kew	L.Sakrzewski
Redland Blitz	*Blc.* California Girl x *Blc.* Beverly Blietz	L.Sakrzewski
Redland Connection	*Blc.* Rhea Thornburg x *Blc.* California Girl	L.Sakrzewski
Redland Lulu	*Lc.* Lulu's Song x *Blc.* Erin Kobayashi	L.Sakrzewski
Redland Mystery	*Blc.* Dal's Kew x *Blc.* Dal's Mystery	L.Sakrzewski
Roselyn Carleton	*Lc.* Bonanza Queen x *Blc.* Peggy O'Neill	B.N.Jones
Samuel Jorge Mello	*Blc.* Golden Bay x *Blc.* Waianae Treasure	R.Giorchino
Shinfong Little Boy	*Blc.* Hsinying Catherine x *Lc.* Memoria Robert Strait	W-C.Hung
Shinfong Little Girl	*Blc.* Hsinying Catherine x *Lc.* Kat Green Cherry	W-C.Hung
Shinfong White Tower	*Blc.* Nippon Flag x *Blc.* Hsinying Catherine	W-C.Hung
Skylar Rayne	*Blc.* California Girl x *C.* Peter's Creek	Krull-Smith
Super Elina	*Blc.* Love Silence x *B. nodosa*	M.Okauchi
Suzuki's Big Surprise	*Blc.* Haw Yuan Moon x *C.* Penny Kuroda	C.K.Suzuki
Suzuki's Black Cat	*Blc.* Roberto Cardoso x *Lc.* Florália's Triumph	C.K.Suzuki
Suzuki's Chinese Beauty	*Blc.* Waikiki Gold x *Blc.* Erin Kobayashi	C.K.Suzuki
Suzuki's Dark Triumph	*Blc.* Dark Waters x *Lc.* Florália's Triumph	C.K.Suzuki
Suzuki's Fox Bruno	*Blc.* Haw Yuan Moon x *Blc.* Nobile's Bruno	C.K.Suzuki
Suzuki's Gold	*Blc.* Waikiki Gold x *Blc.* Chyong Guu Chaffinch	C.K.Suzuki
Suzuki's Golden Throne	*Blc.* Ademar Manarini x *Blc.* Fortune	C.K.Suzuki
Suzuki's Heritage	*Blc.* George Suzuki x *Lc.* Drumbeat	C.K.Suzuki
Suzuki's Jewel	*Blc.* George Suzuki x *Blc.* Chia Lin	C.K.Suzuki
Suzuki's Morning Light	*Blc.* Waikiki Gold x *Lc.* Waianae Sunset	C.K.Suzuki(G.Suzuki)
Suzuki's Orange Moon	*Blc.* Haw Yuan Moon x *Lc.* Lisa Ann	C.K.Suzuki
Suzuki's Orient	*Blc.* Waikiki Gold x *Lc.* Lorraine Shirai	C.K.Suzuki
Suzuki's Purpurine	*Blc.* Haw Yuan Moon x *C.* Bernie Blanck	C.K.Suzuki
Suzuki's Star	*Blc.* Waikiki Gold x *Blc.* Makaha Gold	C.K.Suzuki
Suzuki's Yellow Bird	*Blc.* Waikiki Gold x *Blc.* Tassie Barbero	C.K.Suzuki
Tzeng-Wen Gina	*Blc.* Haw Yuan x *Lc.* Melody Fair	Tzeng-Wen Orch.
Village Chief Orchid	*Blc.* Tainan Gold x *Blc.* Sunstate Colorchart	Chih-Cheng Chen
Viola Nuggett	*Blc.* Fuchs Orange Nuggett x *C.* Viola Sanjume	W-C.Hung
Yanai	*Blc.* Tribute x *Lc.* Melody Fair	Z.Oda
Yen Golden Masterpiece	*Blc.* Angkinantana x *Blc.* Yen Twentyfour Carat	Y.Veerawattanamas (V.Paripoonnanonda)
Yen Golden Sensation	*Blc.* Macao x *Blc.* Yen Twentyfour Carat	Y.Veerawattanamas (V.Paripoonnanonda)
Yen Multicolors	*Blc.* Arom Gold x *Blc.* Nakornchisri Sunset	Y.Veerawattanamas
Young-Min Orange	*Blc.* Viola Nuggett x *Lc.* Trick or Treat	W-C.Hung
BULBOPHYLLUM		
Beryl Cowen	*Bulb. dentiferum* x *Bulb.* [*Mg.*] *fascinator*	C.Urthamapimuk(Lusapanan)
BURRAGEARA		
Yukon D	*Odcdm.* Yukon Ballet x *Burr.* [*Knt.*] Dee Luce	Everglades
CATASETUM		
Memoria Charles Kurka	*Ctsm. appendiculatum* x *Ctsm. platyglossum*	B.Kurka(Bela Vista)
CATCYLAELIA		
Larry Kropf	*Lc.* Blanchette x *E.* [*Epi.*] *tampensis*	G.Spence
CATTLEYA		
Angaur	*C.* Angelwalker x *C. aurantiaca*	C.A.Hammond
Augusto Fernandes Neves	*C.* Pao da Acucar x *C.* Lulu	R.Giorchino
Francesca Marzotto Caotorta	*C.* Pao da Acucar x *C. guttata*	G.Pozzi
Lo's Integuttata	*C.* Lo's Intemoscombe x *C. guttata*	Lo's Orchids
Lo's Kuroda	*C.* Penny Kuroda x *C.* Lo's Intemoscombe	Lo's Orchids
Mackay Drop	*C.* Chocolate Drop x *C.* Hallie Rogers	S.Shoesmith
Memoria Fernanda Cristina	*C.* Prima Donna x *C.* Virginia Ruiz	R.Giorchino
Memoria Mary Ellen Richardson	*C.* Ardmore x *C.* Hardyana	K.Gambel(O/U)
Miss Fortaleza	*C.* Jaguariuna x *C.* Enid	R.Giorchino
Nobile's Leopard	*C.* Corcovado x *C.* Lulu	S.Barani
Nobile's Virgin	*C.* Virginia Ruiz x *C.* Floralou	S.Barani
Orquidacea's Capital Federal	*C.* War Clouds x *C.* Francis T. C. Au	R.Giorchino
Orquidacea's Inside Glory	*C. trianae* x *C.* Mrs. Myra Peeters	R.Giorchino
Orquidacea's Sweetest	*C.* Miss Fortaleza x *C.* Virginia Ruiz	R.Giorchino
Shannon Holst	*C. violacea* x *C.* Penny Kuroda	R.F. Orchids
Summer Poole	*C.* Herbie Poole x *C.* Summer Stars	Tudor[NZ]
CATTLEYTONIA		
Port Of Brandy	*Ctna.* Splash of Port x *Ctna.* Barrel of Brandy	D.Neuendorff
CATYCLIA		
Candy Spires	*Cty.* [*Epc.*] Chrissy x *E.* [*Epi.*] *cordigera* [*cordigerum*]	Rex Foster Orchids
CLOWENOCHES		
JEM's Pastel	*Cl.* Rebecca Northen x *Cyc. warscewiczii*	G.Monnier
COLMANARA		
Everglades Spirit	*Colm.* Ruth Liebman x *Onc.* Illustre	Everglades
CYCNODES		
JEM's Pastel Rose	*Morm. andreettae* x *Cyc. warscewiczii*	G.Monnier
CYMBIDIUM		
Aeka	*Cym.* Wood Nymph x *Cym.* Enzan Knuckle	N.Hayakawa
Alice Elise	*Cym.* Dolly x *Cym.* Kimberley Szabo	Royale Orch.(A.Easton)
Ann Emily	*Cym.* Sussex Moor x *Cym.* Peteete Doll	Royale Orch.(A.Easton)
Anna's Rose	*Cym.* Hot Prime x *Cym.* Boleyn	D.Shigaki
Autumn Pepper	*Cym.* Autumn Green x *Cym.* Claude Pepper	Rowland Col.
Bill Guest	*Cym.* Paul Robeson x *Cym.* Red Beauty	New Horizon Orch.(A.Easton)
Bug Boy	*Cym.* God Only Knows x *Cym.* Mizuha Okada	New Horizon Orch.(A.Easton)
Christmas Gold	*Cym.* Memoria Geoff Laird x *Cym.* Golden Elf	New Horizon Orch.(A.Easton)
Cliff Smith	*Cym.* Kiwi Magic x *Cym.* Desert Gold	Ezi-Gro(A.Easton)
Darch Beauty	*Cym.* Red Beauty x *Cym.* Karen	Ezi-Gro
Darch Blush	*Cym.* Ruby Blush x *Cym.* Frae For All	Ezi-Gro
Darch Buttercup	*Cym.* Wyalong x *Cym.* Trinity Hall	Ezi-Gro
Darch Delight	*Cym.* Daffodil Grove x *Cym.* Valley Delight	Ezi-Gro
Darch Dutchman	*Cym.* Dream On x *Cym.* Dutchman's Delight	Ezi-Gro
Darch Globetrotter	*Cym.* Globetrotter x *Cym.* Barb	Ezi-Gro
Darch Jabiru	*Cym.* Beau Guest x *Cym.* Hot	Ezi-Gro
Darch Joy	*Cym.* Prettiness x *Cym.* James Toya	Ezi-Gro
Darch Lady	*Cym.* Lone Star x *Cym.* Royal	Ezi-Gro
Darch Magic	*Cym.* Winter Beach x *Cym.* Christopher	Ezi-Gro
Darch Majestic	*Cym.* Magic Elf x *Cym.* Fancy Free	Ezi-Gro
Darch Misty	*Cym.* Radiant Muse x *Cym.* Misty Cloud	Ezi-Gro
Darch Parcel	*Cym.* Winter Parcel x *Cym.* Winter Beach	Ezi-Gro
Darch Plum	*Cym.* Snow's Delight x *Cym.* Jim Grantham	Ezi-Gro
Darch Ricky	*Cym.* Radiant Muse x *Cym.* Scaramouche	Ezi-Gro
Darch Satsuma	*Cym.* James Toya x *Cym.* Satsuma	Ezi-Gro
Darch Sharie	*Cym.* Red Beauty x *Cym.* Iceburg	Ezi-Gro
Darch Tammy	*Cym.* Alegria x *Cym.* James Toya	Ezi-Gro
Darch Terrific	*Cym.* Hot x *Cym.* Huckleberry	Ezi-Gro
Darch Walter	*Cym.* Fanfare x *Cym.* Valley Delight	Ezi-Gro
Darch Winter	*Cym.* Kellys Winter x *Cym.* Tony McCartney	Ezi-Gro
Desormes	*Cym.* Archirondel x *Cym.* Les Chenes	E.Young O.F.
Dielamont	*Cym.* Tesson Mill x *Cym.* Colomberie	E.Young O.F.
Emerald Dream	*Cym.* Esmeralda x *Cym.* Musita Dream	New Horizon Orch.(A.Easton)
Fairy Blush	*Cym.* Rincon Fairy x *Cym.* Olymilum	Rowland Col.
Fancy Mountain	*Cym.* Fancy Free x *Cym.* Huckleberry Mountain	Tudor[NZ]
Frankie Valli	*Cym. lowianum* x *Cym.* Valley Zenith	Royale Orch.(A.Easton)
Ginger Wall	*Cym.* Lunar Wall x *Cym.* Cinnamon Wall	G.Giles
Golden Bean	*Cym.* Golden Elf x *Cym.* Miretta	New Horizon Orch.(A.Easton)
Golden Zenith	*Cym.* Tracey Reddaway x *Cym.* Valley Zenith	New Horizon Orch.(A.Easton)
Green Pea	*Cym.* Pee Wee x *Cym.* Esmeralda	New Horizon Orch.(A.Easton)
Heavenly Master	*Cym.* Sweet Spring x *Cym. mastersii*	New Horizon Orch.(A.Easton)
Helen Congleton	*Cym.* Lee Ray x *Cym.* Caripepper	Rowland Col.
John L. Mckeon	*Cym.* Nila x *Cym.* Durham Castle	Santa Barbara
Khan Fury	*Cym.* Khan Flame x *Cym.* Blazing Fury	G.Giles
Kimberley Carnival	*Cym.* Kimberley Joy x *Cym.* Kirby Lesh	Kimberley Orch.

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Kimberley Fair	*Cym.* Kellys Winter x *Cym.* Royale Fare	Kimberley Orch.
Kimberley Flash	*Cym.* Khan Flame x *Cym.* Kirby Lesh	Kimberley Orch.
Kimberley Ingot	*Cym.* Vivacious x *Cym.* Lunara	Kimberley Orch.
Kimberley Sands	*Cym.* Cronulla x *Cym.* Coraki Gold	Kimberley Orch.
Kimberley Surf	*Cym.* Lone Star x *Cym.* Sylvan Beach	Kimberley Orch.
Leo Strack	*Cym.* Accent x *Cym.* Piñata	Rowland Col.
Lunar Blaze	*Cym.* Blazing Fury x *Cym.* Lunar Flame	G.Giles
Lunar Glow	*Cym.* Lunar Wall x *Cym.* Glowing Sands	G.Giles
Magic Devon	*Cym.* Devon Caress x *Cym.* Tethys	New Horizon Orch.(A.Easton)
Maureen Minniken	*Cym.* Lancashire Rose x *Cym.* Minneken	R.Battye(K.Black)
Megan Ward	*Cym.* Red Jewel x *Cym. sinense*	Rowland Col.
Mini Pepper	*Cym.* Red Jewel x *Cym.* Claude Pepper	Rowland Col.
Mont Mado	*Cym.* Trodais x *Cym.* La Moye	E.Young O.F.
Mount Egmont	*Cym.* Dream Therapy x *Cym.* Road to Snow	New Horizon Orch.(A.Easton)
O'Beaston	*Cym.* Khan Flame x *Cym.* Last Tango	R.Battye(Bryants)
Panawood Rex	*Cym.* Little Beauty x *Cym. madidum*	Panawood
Parish Lawyer	*Cym.* Sue x *Cym. parishii*	New Horizon Orch.(A.Easton)
Parwa Stella	*Cym.* Fifi x *Cym.* Everglades	Everglades
Paul Herbert	*Cym.* Cliff Smith x *Cym.* Dolly	Ezi-Gro(A.Easton)
Pepper Glade	*Cym.* Everglades x *Cym.* Claude Pepper	Rowland Col.
Peterborough	*Cym.* Peter Pan x *Cym.* Southborough	New Horizon Orch.(A.Easton)
Rainbow Trout	*Cym. sinense* x *Cym.* Baltic Honey	Rowland Col.
Road to Snow	*Cym.* Trigo Royale x *Cym.* Sleeping Dream	New Horizon Orch.(J.& F.Coker)
Ruby Turner	*Cym.* Black Forest x *Cym.* Ruby Eyes	J & B Orch.(A.Easton)
Sensational Day	*Cym.* Sensation x *Cym.* Clark Day	G.Nakayama
Shanghai Gesture	*Cym.* Long Jump x *Cym. devonianum*	G.W.Cole
Show Rose	*Cym.* Showgirl x *Cym.* Lancashire Rose	R.Battye(G.Giles)
Sisters of Charity	*Cym.* Sleeping Beauty x *Cym.* Pepper Bisque	Royale Orch.(A.Easton)
Sleeping Parish	*Cym.* Sleeping Beauty x *Cym.* Parish Song	Tudor[NZ]
Spike Milligan	*Cym.* Memoria Gracie Allen x *Cym.* Mary Ann	Royale Orch.
Star Dragon	*Cym.* Pendragon x *Cym.* Stargard	R.Battye(K.Black)
Summer Sands	*Cym.* Summer Pearl x *Cym.* Louis Sander	New Horizon Orch.(A.Easton)
Taste of China	*Cym.* Kusuda Shining x *Cym. sinense*	New Horizon Orch.(A.Easton)
Terry's Cameo Sandridge	*Cym.* Putana x *Cym.* Cameo	Ivens
Terry's Diamond Sandridge	*Cym.* Putana x *Cym.* Rod Stewart	Ivens
Terry's Jewel Sandridge	*Cym.* Putana x *Cym.* Pure Ransom	Ivens
Terry's Pearl Sandridge	*Cym.* Putana x *Cym.* Valley Bride	Ivens
Terry's Quartz Sandridge	*Cym.* Putana x *Cym.* Latigo	Ivens
Terry's Ruby Sandridge	*Cym.* Putana x *Cym.* Ruby Eyes	Ivens
Terry's Stunner Sandridge	*Cym.* Putana x *Cym.* Memoria Merv Dunn	Ivens
Terry's Topaz Sandridge	*Cym.* Putana x *Cym.* Chilli Pepper	Ivens
Terry's Torch Sandridge	*Cym.* Putana x *Cym.* Sandridge Torch	Ivens
Trinity Rah	*Cym.* Trinity Gold x *Cym.* Wallacia	G.Giles
Zen Angel	*Cym.* Zenera x *Cym.* Lovely Angel	R.Battye(Bryants)
Zenation	*Cym.* Ovation x *Cym.* Valley Zenith	R.Battye(K.Black)
CYPRIPEDIUM		
Boots	*Cyp. calceolus* x *Cyp. montanum*	H.Pinkepank
Karel Polivka	*Cyp. ventricosum* x *Cyp. macranthos*	H.Pinkepank
Lothar Pinkepank	*Cyp. parviflorum* var *pubescens* x *Cyp. kentuckiense*	H.Pinkepank
CYRTOGLOSSUM		
Rustic Ballet	*Odm.* [*Oto.*] *coronarium* x *Cyr.* [*Odm.*] *edwardii*	H.Liebman
DENDROBIUM		
Amythaon	*Den.* [*Doc.*] Grumpy x *Den.* [*Doc.*] *pugioniforme*	G.Dimos
Aussie Phil	*Den.* [*Doc.*] *mortii* x *Den.* [*Doc.*] *fuliginosum*	G.Dimos(P.Spence)
Bumi Menangis	*Den.* Kahlin Wee x *Den.* Saleh Alsagoff	Sien Orch.
Datuk Seri Najib	*Den.* Ipoh City x *Den.* Anita	R.Sreenivasan
Emma Zunz	*Den.* Candy Stripe x *Den.* Tomie Drake	C.N.Lekha(O/U)
Falcan	*Den. canaliculatum* x *Den. falcorostrum*	P.Werner(O/U)
First Star	*Den. aberrans* x *Den.* [*Tbc.*] *tetragonum*	D.& M.Crawford
Gonzayak	*Den. gonzalesii* x *Den. goldschmidtianum* [*miyakei*]	Marlow Orch.
Grumpy	*Den.* [*Doc.*] Aussie Phil x *Den.* [*Doc.*] *striolatum* [*striolata*]	G.Dimos(O/U)
Gundy Sun	*Den.* Burgundy Cream x *Den.* Rutherford Sunspot	Down Under N.O.
Intégrité de KC	*Den.* Garnet Beauty x *Den.* Millennium Jade	CHJ K.C.(N.T.Hong)
Jan Bradham	*Den.* Star Sapphire x *Den.* Ise	B.Bradham
Jennifer Sng	*Den.* Queen Cobra x *Den. helix*	T.Sng
Lassie Curls	*Den.* Lassie Twist x *Den. lasianthera* [*ostrinoglossum*]	R.Caltabiano(O/U)
Lassie Twist	*Den.* Osmond x *Den. lasianthera* [*ostrinoglossum*]	R.Caltabiano(O/U)
Luey-May	*Den.* [*Doc.*] *striolatum* x *Den.* [*Doc.*] Dainty Cascades	J.Creeggan(O/U)
Majhs Perbandaran Taiping	*Den.* Genting Rose x *Den.* Chao Phya River	R.Sreenivasan
Malcolm Campbell	*Den. cunninghamii* ¶ x *Den. kingianum*	Paradise [NZ](M.R.Campbell)
Margaret Goh	*Den.* Junko Pink x *Den.* Goldenrod	Eck Kheng Goh(M.G.S.)
Memoria Lillian Yamada	*Den. antennatum* [*dalbertisii*] x *Den.* Jester	Yamada Nursery
Mini Snowflake	*Den. aberrans* x *Den. johnsoniae*	H & R
Misty Magic	*Den. gonzalesii* x *Den. cuthbertsonii*	D.& M.Crawford
Mui Keng	*Den.* Janet Mui x *Den.* Tay Swee Keng	Singapore Bot.Gdns
Nanyang	*Den.* Sakura x *Den.* Chao Praya Gem	Tamasek Primary
Neifert's Alexpoly	*Den. alexandrae* x *Den. polysema* [*pulchrum*]	D.Neifert
Neifert's Sweet Heart	*Den. anosmum* x *Den.* Little Sweetscent	D.Neifert
Paradise Gerli	*Den.* Paradise Dream x *Den. subclausum*	Paradise [NZ]
Pasquale Pistorio	*Den.* Sylvian Kouchi x *Den.* Diane Shimazu	Singapore Bot.Gdns
Pasuruan Indah	*Den.* Rita Leicester x *Den. stratiotes*	Sien Orch.
Pinktussi	*Den. obtusipetalum* [*obtusisepalum*] x *Den.* Jabba	A.Millet
Raja Nazrin	*Den.* Sok Hiong Wee x *Den.* D'Bush Pansy	Singapore Bot.Gdns
Rita Sng	*Den.* Shavin White x *Den.* Kiyomi Beauty	T.Sng
Rotary Club of Singapore	*Den.* Jean Chretien x *Den.* Rita Leicester	Singapore Bot.Gdns
Scott's Valentine	*Den. violaceum* x *Den. mohlianum*	A.Millet
Selectar Blue Helix	*Den.* Selectar Blue Lips x *Den. helix*	David Lim(O/U)
Selectar Blue Lips	*Den.* Pink Lips x *Den.* Blue Spire	David Lim(O/U)
Selectar Golden Sunshine	*Den.* Michiko x *Den.* Zaleha	David Lim(O/U)
Sheikh Sabah Al-Ahmed	*Den.* Neha x *Den.* Chao Praya Candy	Singapore Bot.Gdns
Snow World	*Den.* Hakuseki x *Den.* Snow Angel	M.Inamine
Sonja	*Den.* Peter Furniss x *Den.* Mui Keng	Singapore Bot.Gdns
Tropgarden Beauty	*Den.* Ng Eng Cheow x *Den. chrysanthum*	Saleem & Sathish
Vellayani Chiangmai Candy	*Den.* Chiengmai Pink x *Den.* Emma Zunz	C.N.Lekha(Biotech.India)
Vellayani Nagoya Candy	*Den.* Nagoya Pink x *Den.* Emma Zunz	C.N.Lekha(Biotech.India)
Vellayani Rungnapa Candy	*Den.* Rungnapa x *Den.* Emma Zunz	C.N.Lekha(Biotech.India)
Wen Xin Chongfu	*Den.* Mother Teresa x *Den.* Fantasy Land	Wong Mei Lin
Yuan Nan Bright	*Den.* Tomie Drake x *Den.* Yuan Nan Dreamy	V.Boonyuenvetwat
Yuki Komchi	*Den.* Snow World x *Den.* Senbazuru	M.Inamine
DISA		
Cape Red	*Disa uniflora* x *Disa* Duckitt's Pride	Duckitt
Pink Supreme	*Disa uniflora* x *Disa* Darling Supreme	Duckitt
Scarlet Darling	*Disa uniflora* x *Disa* Darling Red	Duckitt
DORITAENOPSIS		
Brother Bright Stripe	*Phal.* Luchia Stripes x *Dtps.* Brother Isabel	Stones River(Brother)
Brother Love King	*Phal.* Brother Pirate King x *Dtps.* Brother Love Rosa	DeLeon's(Brother)
Crystal Springs	*Phal.* Helengene x *Dtps.* White Wonder	Stones River(Stewart Orch.)
Dream Red	*Dtps.* Hsinying Cruz x *Phal.* Brother Pixie	Nogei S.H.S.
Exotic Valentine	*Phal.* Hakalau Ruler x *Dtps.* Happy Valentine	Exotic Orchids
Firefly Ballet	*Phal.* Zuma Firefly x *Dtps.* Cloud Ballet	K.Avant
Fusheng's Golden Age	*Dtps.* Fong-Tien's Yellow Butterfly x *Dtps.* Chian Xen Queen	Fu-Sheng Huang
Hilda Purviance	*Dtps.* Sogo Smith x *Dtps.* Brother Spring Beauty	Parkside(O/U)
Jean Heath Douglas	*Phal.* Lin Jessica x *Dtps.* Plum Rose	John H.Miller
Jiuhbao Queen Beer	*Phal.* Taisuco Roseherz x *Dtps.* Formosa Rose	Ching Hua(JiuhBao Orch.)
Kathleen's Valec	*Dtps.* Hampshire Valec x *Phal.* Kathleen's Welcome	Arnold J.Klehm
Kathryn Ruth	*Phal.* Taisuco Magic x *Dtps.* Happy Valentine	Ivens
Kuo's Golden King	*Dtps.* Sogo Golden x *Phal.* Chang Maw Evergreen	Kuo Shih Che
Kuo's Golden Manager	*Dtps.* Sogo Manager x *Dtps.* Sogo Golden	Kuo Shih Che
Mei-Shuai One Point Red	*Dtps.* Scarlet in Snow x *Dtps.* Hamakita Beauty	Mei Shuai Orch.
Mei-Shuai Red Angel	*Phal.* Yann Mei Peoker x *Dtps.* Happy Valentine	Mei Shuai Orch.
Memoria Eva Goebel	*Dtps.* Jacquline Lee Pletcher x *Dtps.* I-Hsin New Girl	N.Mountford
Memoria James Bart Starr	*Phal.* Golden Daybreak x *Dtps.* Minho Princess	W.Tippit
Memoria Merritt Huntington	*Dtps.* Three Rivers x *Phal.* Taida Snow Kaala	N.Mountford
Nobby's Amazine	*Phal.* Sara Lee x *Dtps.* Little Gem Stripes	Nobby Orch.
Nobby's Christmas Pink	*Dtps.* Brother Julius x *Phal.* Carmela's Pixie	Nobby Orch.
Nobby's Golden Canary	*Dtps.* Sogo Pride x *Phal.* Nobby's Fox	Nobby Orch.
Nobby's Little Kitty	*Dtps.* Taisuco Jewel x *Phal.* Zuma's Pixie	Nobby Orch.
Nobby's Little Panther	*Dtps.* Chain Xen Pearl x *Phal.* Nobby's Snow Princess	Nobby Orch.
Nobby's Milky Way	*Dtps.* Chain Xen Pearl x *Dtps.* Nobby's Purple	Nobby Orch.
Orchidkonnection Leopard	*Dtps.* Malibu Leopard x *Phal.* Zuma Mantoria	Orchid Konnection(Zuma Canyon)

NAME	PARENTAGE	REGISTERED BY
Orchidkonnection Light	*Phal.* Ever-spring Light x *Dtps.* Modern Rose	Orchid Konnection(O/U)
Orchidkonnection Marvel	*Dtps.* Plum Rose x *Phal.* Carolina Pink Marvel	Orchid Konnection
Orchidkonnection Stripes	*Dtps.* Okay Seven x *Phal.* Fayette	Orchid Konnection
Orchidom Bon Winter	*Dtps.* Winter Clouds x *Phal.* Bonyuki	N.Mountford
Orchidom Candy Kiss	*Dtps.* Admiral's Club x *Dtps.* Orchidom Bulls-Eye	N.Mountford
Orchidom Lissette	*Dtps.* Taisuco Firebird x *Dtps.* Orchidom Erol	N.Mountford
Orchidom Pink Passion	*Dtps.* Jacquline Lee Pletcher x *Dtps.* Taisuco Lovebird	N.Mountford
Orchidom Wild Prince	*Phal.* Carmela's Wild Thing x *Dtps.* Leopard Prince	N.Mountford
Orchidview Gold Dust	*Phal.* Orchidview Bellringer x *Dtps.* Brecko Snowpuff	H.P.Norton
Paternoster	*Dtps.* Aspen Snow x *Phal.* Blanches Banques	E.Young O.F.
Peter Rose Queen	*Phal.* Sogo Rose x *Dtps.* King Shiang's Beauty	W.H.Chen
Peter Yellow Peoker	*Phal.* Golden Peoker x *Dtps.* Sogo Pride	W.H.Chen
Princess Cherry	*Dtps.* Minho Princess x *Dtps.* Chin-Hsing Cherry	N.Mountford
Rainbow Yellow Sun	*Phal.* Sogo Benz x *Dtps.* Sogo Pride	D.S.Chang
Rex Valentine	*Dtps.* Judy Valentine x *Dtps.* Oriental Valentine	R.&H.Eddy(O/U)
Shan-Chieh Beauty	*Phal.* Cleopatra x *Dtps.* Lady Blossom	Shan-Chieh Chien
Shawangunk Rosey Lil	*Dtps.* Regal Velvet x *Phal.* Camp Bells	H.&L.Dash(H.P.Norton)
Shawangunk Sunset	*Phal.* All Aglow x *Dtps.* Taisuco Melody	H.&L.Dash(H.P.Norton)
SIO's Fire Eagle	*Dtps.* Sogo Eagle x *Dtps.* Taisuco Firebird	Sky Island
SIO'S Firebrand	*Phal.* Hausermann's Goldcup x *Dtps.* Taisuco Firebird	Sky Island
SIO's Garnet Eagle	*Phal.* Ever-spring King x *Dtps.* Sogo Eagle	Sky Island
SIO's Ruby Star	*Phal.* Marica x *Dtps.* Taisuco Firebird	Sky Island
SIO's Wild Eagle	*Dtps.* Sogo Eagle x *Phal.* Brother Imp	Sky Island
Southern Bullseye	*Dtps.* Hampshire Bulls-Eye x *Dtps.* Cloud Ballet	Stones River
Taida Be Gold	*Phal.* Be Glad x *Dtps.* Taida Gold Sogo	Taida
Taida Little Gold Pixie	*Dtps.* Taida Seven Pixie x *Dtps.* Taida Gold Sogo	Taida
Tariflor Beauty	*Dtps.* Fong-Tien's Love Messenger x *Dtps.* Shan-Chieh Beauty	Fong-Wu How
Tariflor Rose	*Dtps.* Jiuhbao Red Rose x *Phal. amabilis*	Fong-Wu How
Tariflor Spin	*Dtps.* Shan-Chieh Beauty x *Phal. amabilis*	Fong-Wu How
Tejas Cotton	*Phal.* Land O' Cotton x *Dtps.* Three Rivers	K.Avant
Twilight Princess	*Phal.* Pink Twilight x *Dtps.* Minho Princess	Stones River
Tying Shin Oriole	*Dtps.* Sogo Manager x *Phal.* Brother Oxford	Kuo Liang Hung
Tying Shin Phoenix	*Dtps.* Tzu Chiang Orange x *Phal.* Sogo Lawrence	Kuo Liang Hung
Tying Shin Pudding	*Phal.* Brother Skimmer x *Dtps.* Sogo Golden	Kuo Liang Hung
Tying Shin Wine	*Dtps.* Sogo Gotris x *Phal.* Sogo Lawrence	Kuo Liang Hung
Tying Shin Wonderland	*Phal.* Brother Sweet Sugar x *Dtps.* Sogo Golden	Kuo Liang Hung
Veracruz Princess	*Dtps.* Veracruz x *Dtps.* Minho Princess	Stones River(O/U)
DRACULA		
Raven	*Drac. vampira* x *Drac. roezlii*	J.Leathers
EPICATONIA		
Regina Colin	*Ctna.* Capri x *Epi. calanthum*	A.Nuccio
GOMONIA		
Denise's Ruby	*Milt.* Spectacular Dawn x *Gom. crispa*	J.P.Waldock
HAGERARA		
Blue Quest	*Vdnps.* Kevin McFarlane x *Dtps.* King Shiang's Rose	John H.Miller
HASEGAWAARA		
Pride of Dublin	*Pot.* Sally Taylor x *Bro. sanguinea*	Fordyce
Redland Kaiser	*Pot.* Alyce Kaiser x *Ctna.* Memoria Henry Goldberg	L.Sakrzewski
Special Angel	*Otr.* French Brandy x *Sc.* Beaufort	D.Neuendorff
Splash Of Love	*Otr.* Sip of Brandy x *Pot.* Love Call	D.Neuendorff
HAWKINSARA		
Aussie Port	*Ctna.* Dash of Port x *Hknsa.* Aussie Brandy	D.Neuendorff
Redland Tapper	*Slc.* Anne Tapper x *Ctna.* Memoria Henry Goldberg	L.Sakrzewski
HAYATAARA		
Jerry Spence	*Hay.* [*Recc.*] Edith Spence x *B.* [*Rl.*] *digbyana*	G.Spence
IWANAGAARA		
Tzeng-Wen Tricia	*Cll.* [*Dial.*] Snowflake x *Blc.* Tzeng-Wen Beauty	Tzeng-Wen Orch.
JELLESMAARA		
Walter Spence	*Jel.* [*Recc.*] Frances Fox x *Blc.* Orange Glory	G.Spence

NAME	PARENTAGE	REGISTERED BY
KAGAWARA		
Emily Kavita Rajah	*Ren. storiei* x *Ascda.* Thai Classic	R.Sreenivasan(Eastern Vigor)
LAELIOCATARTHRON		
Chang Jhih Pinklady	*Cll.* [*Dial.*] Mizoguchi x *Lc.* Yen Redface	Wei Ming Lee(Wan Yi Guo)
LAELIOCATONIA		
Barrel Of Joy	*Lc.* Mini Purple x *Ctna.* Barrel of Brandy	D.Neuendorff
Distant Drums	*Lc.* Mini Purple x *Lctna.* Drummer Boy	D.Neuendorff
Yuan Nan Lovely	*Lctna.* Peggy San x *Lc.* Memoria Robert Strait	V.Boonyuenvetwat
LAELIOCATTLEYA		
Amber Celle	*Lc.* Amber Glow x *Lc.* Belle of Celle	R.Giorchino(A.Carnier)
Annette Castro	*C.* Hawaiian Wedding Song x *Lc.* Shellie Compton	Malvarosa
Balkis Burgundy	*Lc.* Memoria Buddy Clark x *C.* Landate	Rex Foster Orchids
Bod o Franz	*L. milleri* x *C. maxima*	H.Pinkepank
Denise Narkevitz Pecini	*Lc.* Orquidacea's Canzone Perte x *Lc.* Orquidacea's Neve Eterna	R.Giorchino
Jose Maria Nogueira	*Lc.* Zuki Niglla x *Lc.* Alexis Sauer	R.Giorchino
Jose's Pride	*Lc.* Gold Digger x *Lc.* Straight Answer	J.Hermo
Jubilation	*C. harrisoniana* [*harrisoniae*] x *Lc.* Liz Streeter	Fordyce
Liz Streeter	*Lc.* Royal Emperor x *C. loddigesii*	R.Streeter
Lo's Little Purple	*Lc.* Tsiku Hollyhock x *Lc.* Mini Purple	Lo's Orchids
Lo's Yellow Fire	*L. gloedeniana* x *Lc.* Fire Island	Lo's Orchids(O/U)
Moore Magic	*L. autumnalis* x *C.* Interglossa	O.J.Bromfield(T.W.Moore)
Nobile's Aquarius	*C.* Jaguariuna x *Lc.* Ecstacy	S.Barani
Nobile's Beata	*Lc.* Beatriz Künning x *L. purpurata*	S.Barani
Nobile's Coronation	*Lc.* Irene Finney x *Lc.* Ovation	S.Barani
Nobile's Love Song	*Lc.* Adolpho Menezes x *Lc.* Maria Aparecida Barani	S.Barani
Nobile's Romance	*C. warneri* x *Lc.* Beatriz Künning	S.Barani
Nobile's Roses	*Lc.* Maria Aparecida Barani x *C.* Fátima Barani	S.Barani
Orquidacea's Austin Star	*C.* Rubens Ribeiro x *Lc.* João Antonio Nicoli	R.Giorchino
Orquidacea's Boa Aurora	*C.* Francis T. C. Au x *Lc.* Maria Aparecida Barani	R.Giorchino
Orquidacea's Canzone Perte	*Lc.* Ella Esk x *C. loddigesii*	R.Giorchino(S.Nagase)
Orquidacea's Dadivosa	*Lc.* Lisa Ann x *C.* Chocolate Drop	R.Giorchino
Orquidacea's Diamond	*Lc.* Zuki Fontes x *C. labiata*	R.Giorchino
Orquidacea's Great Cabaret	*Lc.* Walter Slagle x *Lc.* Bonanza	R.Giorchino(O/U)
Orquidacea's Hiper Rainha	*Lc.* Maria Cristina Nogueira x *C.* Floralia's Story	R.Giorchino
Orquidacea's Jane Love	*C.* Virginia Ruiz x *L. purpurata*	R.Giorchino
Orquidacea's Koronel King	*Lc.* Rolf Altenburg x *Lc.* Ovation	R.Giorchino
Orquidacea's Lilac	*Lc.* Lina Cavalieri x *C.* Bangkok Beauty	R.Giorchino
Orquidacea's Lilac Moon	*Lc.* Lina Cavalieri x *C.* Charmer	R.Giorchino
Orquidacea's Menina Moça	*Lc.* Lina Cavalieri x *Lc.* Culminant	R.Giorchino
Orquidacea's Miss Rebeca	*Lc.* Culminant x *Lc.* Ovation	R.Giorchino
Orquidacea's Monte Blanco	*Lc.* Maria Aparecida Barani x *Lc.* Orquidacea's Victory	R.Giorchino
Orquidacea's Neve Eterna	*Lc.* Felicitation x *C.* Dinah	R.Giorchino
Orquidacea's New Devil	*Lc.* Varycolor x *C. guttata*	R.Giorchino
Orquidacea's New Paradise	*Lc.* Zuki Fontes x *Lc.* Kunta Kinte	R.Giorchino
Orquidacea's Pingo D'Amore	*Lc.* Edgard Van Belle x *Lc.* Chine	R.Giorchino
Orquidacea's Poderosa Tiger	*Lc.* João Antonio Nicoli x *C.* Orquidacea's Jade	R.Giorchino
Orquidacea's Queen Hill	*Lc.* Topaz x *Lc.* Amber Glow	R.Giorchino(L.R.Jordão)
Orquidacea's Robin Wood	*Lc.* Zuki Niglla x *C. labiata*	R.Giorchino
Orquidacea's Talent Secrets	*Lc.* Enchanted Jungle x *Lc.* José Dias Castro	R.Giorchino(O/U)
Orquidacea's Ultra Roy	*Lc.* Rolf Altenburg x *Lc.* Cape Pride	R.Giorchino
Orquidacea's Xereta	*Lc.* Canberra x *C.* Robert H. Jewell	R.Giorchino(O/U)
Orquidacea's Yellow Paradise	*C. dowiana* x *Lc.* John Laycock	R.Giorchino(O/U)
Pahokee Boy	*Lc.* Adolph Hecker x *Lc.* Stephen Oliver Fouraker	Everglades
Priscilla Tynch	*L. cinnabarina* x *Lc.* Doña Josepha	R.Bujtas(Ruben in Orch.)
San Diego Variable	*C.* Hawaiian Variable x *Lc.* Autumn Fest	O.J.Bromfield
Silent Dream	*C. walkeriana* x *Lc.* Starlight Pirika	T.Yuhora
Suzuki's Angel	*Lc.* José Dias Castro x *Lc.* Irene Finney	C.K.Suzuki
Suzuki's Belly Dancer	*Lc.* Pordias x *Lc.* Florália's Triumph	C.K.Suzuki
Suzuki's Charm	*Lc.* Mildred Rives x *C.* Jaguariuna	C.K.Suzuki
Suzuki's Colossus	*Lc.* Amber Glow x *Lc.* Yoshico Suzuki	C.K.Suzuki
Suzuki's Drop	*Lc.* José Dias Castro x *C.* Chocolate Drop	C.K.Suzuki
Suzuki's First	*C. labiata* x *Lc.* Zuiho	C.K.Suzuki
Suzuki's Golden Eye	*Lc.* Bonin x *Lc.* Tiago Suzuki	C.K.Suzuki
Suzuki's Pink Paws	*Lc.* Yoshico Suzuki x *C. loddigesii*	C.K.Suzuki

NAME	PARENTAGE	REGISTERED BY
Suzuki's Salmon King	*Lc.* Lisa Ann x *Lc.* Waianae Sunset	C.K.Suzuki
Suzuki's Sunset	*C. percivaliana* x *Lc.* Waianae Sunset	C.K.Suzuki
Suzuki's Sunset Glow	*Lc.* José Dias Castro x *Lc.* Waianae Sunset	C.K.Suzuki
Suzuki's Triumph	*Lc.* Yoshico Suzuki x *Lc.* Florália's Triumph	C.K.Suzuki
LUDOCHILUS		
Jin-Chai	*Lud.* Tsiku Taiwan x *Anct. formosanus*	Yih-Juh Shiau
LUISAERIDES		
Sirithun	*Aer. houlletianum* x *Lsa. psyche*	S.Srisuk
LYCASTE		
Auburn-Congleton	*Lyc.* Auburn x *Lyc.* Memoria Bill Congleton	T.Goshima(O/U)
Avranches	*Lyc.* Koolena x *Lyc.* Amaroo	E.Young O.F.
Hagoromo	*Lyc.* Hamana Shoal x *Lyc.* Shoalhaven	Tadashi
Hamana Shoal	*Lyc.* Hamana Burritt x *Lyc.* Shoalhaven	Tadashi(O/U)
Happy Valentine	*Lyc.* Capricorn x *Lyc.* White Christmas	Y.Suzuki
Kitayama	*Lyc.* Auburn-Congleton x *Lyc.* Sunray	T.Goshima
Memoria Joan Burnham	*Lyc. brevispatha* x *Lyc. cochleata*	J.Kaeding(O/U)
Mini Splash	*Lyc. cruenta* x *Lyc.* Multiple	Tadashi
Rocheport	*Lyc.* Bouley Bay x *Lyc.* Amaroo	E.Young O.F.
Seseman	*Lyc. brevispatha* x *Lyc. lasioglossa*	Shuji Suzuki
Shugakuin	*Lyc.* Southern Cross x *Lyc.* Shoalhaven	Tadashi
Suntan	*Lyc.* Sunburst x *Lyc.* Sunray	Y.Suzuki
Terry Kennedy	*Lyc.* Cherish x *Lyc.* Wyld Sunset	D.& T.Kennedy(H.Nagai)
MACLEMOREARA		
Lanny Morry	*Bl.* Richard Mueller x *Schom. thomsoniana*	M.Morry
MASDEVALLIA		
Adrian Kalb	*Masd. triangularis* x *Masd. rimarimaalba*	D.Kalb
Snow Cone	*Masd. rex* ¶ x *Masd. glandulosa*	I.Komoda
MILTONIA		
Maui Kiss	*Milt.* Meadowdale x *Milt.* Alison Tom	I.Komoda
Spectacular Dawn	*Milt.* Tropic Dawn x *Milt. spectabilis*	J.P.Waldock(O/U)
Tropical Punch	*Milt.* Golden Emperor x *Milt.* Soquel	I.Komoda(T.Root)
MOKARA		
Bertie Ahern	*Aranda* Ishbel Manisaki x *Ascda.* Tubtim Velvet	Singapore Bot.Gdns
Golden Rooster	*Mkra.* Khaw Phaik Suan x *Ascda.* Thai Classic	R.Sreenivasan
ODONTIODA		
Janel	*Oda.* Minel x *Oda.* Janis Andrew	Tudor[NZ](A.Easton)
La Bachauderie	*Oda.* Bellozanne x *Oda.* Vicard Point	E.Young O.F.
La Catillon	*Odm.* Bandor x *Oda.* Gorey Castle	E.Young O.F.
Mont Fliquet	*Odm. cirrhosum* x *Oda.* Gorey Castle	E.Young O.F.
San Damiano Beauty	*Oda.* Pacific Beauty x *Oda.* Maravilla	J.L.Walker(Orchid House)
San Damiano Bouque	*Oda.* Stromar x *Oda.* Aloette	J.L.Walker(Orchid House)
San Damiano Freetrix	*Odm.* Jerispol x *Oda.* Wearside Fire	J.L.Walker(Orchid House)
San Damiano Hearts	*Oda.* Andrew Robert Foster x *Oda.* Queen of Hearts	J.L.Walker(Orchid House)
San Damiano Saint	*Oda.* Saint Clement x *Oda.* Maravilla	J.L.Walker(Orchid House)
San Damiano Shaman	*Oda.* San Damiano Wonder x *Oda.* Alstir	J.L.Walker(Orchid House)
San Damiano Wonderment	*Oda.* Harrods Forever x *Oda.* Stephanie	J.L.Walker(Orchid House)
Shelley Jane	*Oda.* Shelley Master x *Oda.* Janel	Tudor[NZ]
ODONTOCIDIUM		
Guann Shin Coffee	*Onc.* [*Mtdm.*] Issaku Nagata x *Odcdm.* Hans Neuenhaus	Nao-Chang Wu(Fu-Lai Chang)
ODONTOGLOSSUM		
La Platte	*Odm. spectatissimum* [*triumphans*] x *Odm.* Many Waters	E.Young O.F.
San Damiano Joseph	*Odm. crispum* x *Odm.* Durham Pursuit	J.L.Walker(Orchid House)
ONCIDIUM		
Auntie Bee	*Onc.* Sultamyre x *Onc.* Arila	B.M.Smith(O/U)
Green Valley Christmas Tree	*Onc.* [*Mtdm.*] Issaku Nagata x *Onc.* John Louis Shirah	Chen-Fong Chao(Fu-Lai Chang)
Green Valley Fragrant	*Onc.* [*Mtdm.*] Pupukea Sunset x *Onc.* [*Mtdm.*] Cleo's Pride	Chen-Fong Chao(Fu-Lai Chang)
Green Valley Sweet	*Onc.* John Louis Shirah x *Onc.* Auntie Baby	Chen-Fong Chao(Fu-Lai Chang)
Sarah Elizabeth Merritt	*Onc.* Auntie Bee x *Onc. forbesii*	B.M.Smith(O/U)

NAME	PARENTAGE	REGISTERED BY
ONCOSTELE		
Long Shore	*Onc.* Tai x *Rst.* [*Odm.*] *londesboroughiana*	Everglades
OTAARA		
Thai Diamond	*Lctna.* Thuptim Thai x *Blc.* Pink Diamond	R.Shoesmith(O/U)
PAPHIOPEDILUM		
Acker's Wonderland	*Paph.* Wonder Isle x *Paph.* Yerba Buena	Orch.by Ackers
Alexander Christopher	*Paph.* Heart of Palenque x *Paph.* Alsan's Round	Svoboda
Alexanderplatz	*Paph.* Berlin x *Paph.* Great Pacific	J.Jäger
Alfred Tetzlaff	*Paph. godefroyae* x *Paph. vietnamense*	H.Pinkepank
Alsans Tiger	*Paph.* Harvest Gold x *Paph.* Alsan's Round	Svoboda
Amelia Loughner	*Paph.* Rafael Garcia Orraca x *Paph. charlesworthii*	Parkside(T.Umbour)
Aunt Mary	*Paph. sukhakulii* x *Paph.* Mathewsianum	B.Sanders(Orchid House)
Berlin-Köpenick	*Paph.* Linda x *Paph.* Via Capistrano	J.Jäger
Bertmandu	*Paph.* Nightfire x *Paph. charlesworthii*	R.Tran(Thanh Nguyen)
Brilliant Toshie	*Paph.* Hamana December x *Paph.* Valwin	Y.Tsuchiya(Saeki Nurs.)
Bryce	*Paph. tonsum* x *Paph. wardii*	D.& J.Erdmann
Bulter's Effect	*Paph. callosum* x *Paph.* Special Effects	J.Martin(K.Butler)
Carol Salvagni	*Paph. fairrieanum* x *Paph.* John Lamb	D.Geiger
Cerros Prince	*Paph.* Choima x *Paph.* Middle Mesa	Svoboda
Charlottenburg	*Paph.* Berlin x *Paph.* Uncas	J.Jäger
Chocolate Eagle	*Paph.* Eagle Heart x *Paph.* Chocolate Shot	J.Sloniker(O/U)
Claire DeBus Hardy	*Paph.* Hellas x *Paph. hirsutissimum*	D.Geiger
David Eickhoff	*Paph.* Memoria Albert Eickhoff x *Paph. delenatii*	Cindy Eickhoff
David Geiger	*Paph.* Freckles x *Paph. barbigerum*	D.Geiger
Dirk Jäger	*Paph.* Castillo x *Paph.* Carl Cuddeback	J.Jäger
Driven Snow	*Paph.* Alsan's Delight x *Paph.* Uxmal	Svoboda
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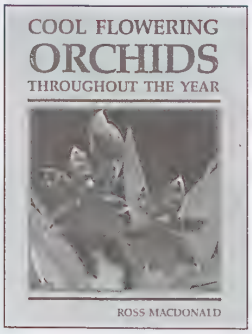
COOL FLOWERING ORCHIDS THROUGHOUT THE YEAR

by Ross Macdonald



Ross Macdonald is a highly respected orchid grower and photographer from the North Island of New Zealand. This volume is devoted to cool growing orchid genera, which are easy to cultivate in New Zealand and southern Australia. Growers in tropical areas should not be discouraged, as many of these orchids are indeed adaptable and will grow in a range of climates. Andy Easton has written the foreword. Ross has devoted the first few pages of the book to cultural hints, which are down to earth and give practical information on the basics of orchid cultivation.

Basically this is a pictorial book with over 300 full colour photographs, covering a similar number of orchid species and hybrids. The quality of both the photographs and the colour reproduction is impressive. All of the orchids have been captured using available sunlight and there is no flash photography. There is a wide range of orchid genera covered with particular emphasis placed on cymbidiums, dendrobiums, laelias, masdevallias, the Odontoglossum alliance and Paphiopedilum.

The photographs are arranged in four chapters, referring on their main blooming season. The use of seasons ensures the text is also applicable to growers in the northern hemisphere.

This inexpensive book is exceptional value and importantly is written by someone who knows and grows these orchids. I thoroughly recommend this book to orchid growers, as it will be of great value to both novice and experienced enthusiasts.

144 pp. 242mm x 168mm
Softcover.

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MORE FLOWERING ORCHIDS THROUGHOUT THE YEAR

by Ross Macdonald

This is the sister volume to Cool Flowering Orchids throughout the Year. It is in the same format and style as the previous book, but also includes some genera that would require artificial heating in cooler climates. This volume covers a further 314 orchid species and hybrids with 344 colour plates. Both texts are highly recommend to all orchid fanciers; particularly newcomers who wish to see an array of delightful flowers that they could grow.

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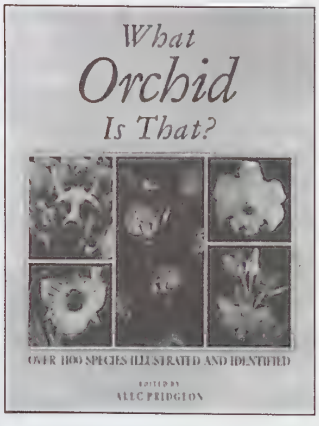
WHAT ORCHID IS THAT?

Edited by Alec Pridgeon



The orchid is one of the most passionately cultivated flowers world-wide, and for centuries it has been a symbol for the exotic and mysterious in the human imagination. As the brilliant photographs in this book show, the shapes, hues and textures of many of these extraordinary flowers continue to produce a shock of wonder in the viewer.

This book will delight everyone, from the gardener with a casual interest in orchids, to the confirmed enthusiast. It takes in a wide spectrum of orchid genera and more than 1100 species common in cultivation, presented by an international team of experts.

The first section, by the General Editor, Alec Pridgeon, introduces orchid habitat, distribution, names and classification, hybrids, pollination, how to grow orchids and control pests and diseases, and orchid conservation.

The alphabetical section, "Orchids A-Z", includes descriptions, names and synonyms, geographic distribution, notes on culture, and photographs drawn from collections around the world, showing the best-known species in cultivation.

Whether you are buying, growing or just looking, this is the ultimate guide to orchids.

304 pages, colour.

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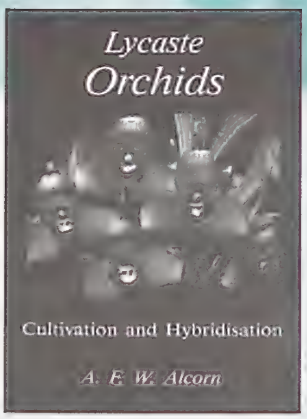

LYCASTE ORCHIDS - Cultivation and Hybridisation

A.F.W. Alcorn

Lycaste orchids are easy to grow, and they produce flowers that range from the beautiful to the bizarre. No book previously has provided detailed cultural requirements of the Lycaste, and this book should fill that gap, and encourage new growers to take up the cultivation of this beautiful genus. A section on hybridising contains valuable information on inheritance and genetics that will benefit any hybridiser, not just the grower of Lycastes, as well as helpful hints on how to avoid pitfalls in your hybridising program.

Michael Hallett, a friend of Fred Alcorn for a number of years, co-wrote this book with Fred and has completed it posthumously. He has a background in genetics, research and botany, and a passion for plants, especially orchids.

237 pages, colour and B&W.

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GROWING PHALAENOPSIS AT HOME

James Neal

This book is essential reading and reference for any person who grows, or is intending to grow, Phalaenopsis.

Jim, in a simple and easily understood style, explains and elaborates on light conditions, watering, temperatures, fertilisers, pests and diseases.

Explanations of the way Phalaenopsis are named and the implications of growing seedlings, illustrate some of the more difficult ideas for the layman to understand.

The colour photography illustrates beautifully the topics under discussion and the orchid names are supplied, where necessary, as a caption.

The illustrations drawn by Jim's son Jamie are pertinent and succinct and make the subject more easily understood.

56 pages, colour and B&W.

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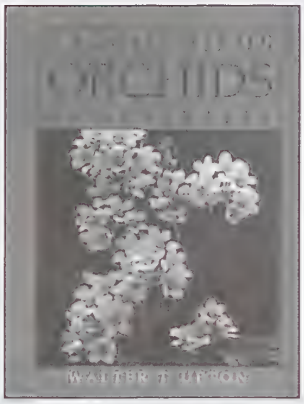
SARCOCHILUS ORCHIDS OF AUSTRALIA

Walter T. Upton



Sarcochilus Orchids of Australia is the first book to cover all aspects of species of the genus Sarcochilus. Compact plants of great floral beauty with ease of culture, they are mostly cool to cold growing, requiring limited space, and for these reasons are quickly becoming the orchid of the future.

The book gives each individual species a separate entry, with information on its history, synonyms, distribution, habitat, cultivation and hybrids, along with a drawing showing the main parts of the plant and flower, plus a colour plate providing an easy means of identification.

Hybridising, including intergenerics, is dealt with in detail - most registered hybrids being accompanied by a colour plate. Other chapters include pollination, seed raising and cultural information for the home grower.

This is Walter T. Upton's third book and is a companion to his very popular and informative Dendrobium Orchids of Australia.

119 pages, colour and B&W.

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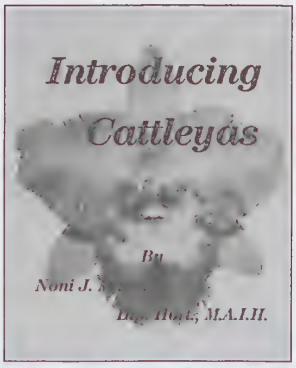
INTRODUCING CATTLEYAS

Noni J. Mammatt

Noni Mammatt's fascination with the Cattleya Alliance, their most beautiful blooms and extensive range of colour combinations, has prompted Noni to share the results of her own trials in successfully growing and flowering all types of this most beautiful genus under shadehouse conditions in the city of Perth in Western Australia. She hopes that as a result of her writing some new growers, as well as the experienced growers of other orchid genera, may be encouraged to introduce the Cattleya Alliance into their collections.

24 pages, B&W.



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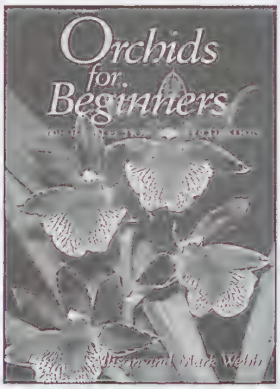

ORCHIDS FOR BEGINNERS

A Guide to Selection and Cultivation

Allison and Mark Webb

"Orchids for Beginners" is for those just starting out in orchids. It provides information about choosing orchids best suited to your conditions and how to grow them. There is advice on what to look for when choosing plants to avoid some common traps and the expense of losing plants unsuited to your conditions. The essential basics of cultivation for beginners are covered _ potting media, mounting plants, repotting and deflasking as well as choosing locations and building bushhouses. There are suggestions for growing in country areas as well as indoors. The plant descriptions offer suggestions of plants to choose from as well as introducing some of the very varied forms of orchids.

48 pages, colour and B&W.

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Chiu Jih Fairy	*Phal.* Dou-dii Rose x *Phal.* Haur Jin Star	Jih Ruey Chiu
Colleen Schmidt	*Phal.* Adele Herman x *Phal.* Donald Herman	Bettencourt
Cool Cat	*Phal.* Brother Jungle Cat x *Phal.* Brother Purple	R.Lucas
Corby Cream	*Phal.* Ho's Amaglad x *Phal.* Zuma's Pixie	Rodney Jones
Dale Edward Lawless	*Phal.* Sweet Revenge x *Phal.* Brother Supersonic	G.Lawless(Carmela)
Dale Schmidt	*Phal.* Hausermann's Candy x *Phal.* Thomas Weber	Bettencourt
Dancing Queen	*Phal.* Reijiro Wakatsuki x *Phal.* Taisuco Glory	Orchids Ltd [MN](R-J.Quené)
Donna Craig	*Phal. tetraspis* x *Phal. chibae*	W.Tippit
Doris Jean Nash	*Phal.* Brother Purple Spotted x *Phal.* Lawless Tannhaüser	G.Lawless(Carmela)
Edward John Lawless	*Phal.* Carmela's Brite Lites x *Phal.* Goldberry	G.Lawless(Carmela)
Feather Pink	*Phal.* Maki Watanabe x *Phal.* Maui Parfait	Exotic Orchids
Frances Aileen Lawless	*Phal.* Brother Purple Spotted x *Phal.* Soroa Wild Thing	G.Lawless(Carmela)
Fred's Flare	*Phal.* Stock's Red Genes x *Phal.* Princess Kaiulani	F.J.Bergman
Fred's Gem	*Phal.* Brother Supersonic x *Phal.* Green Mist	F.J.Bergman
Fred's Hilo Lip	*Phal.* Taida Sleeping x *Phal.* Taida Hilo Lip	F.J.Bergman
Fred's Intern	*Phal.* Buddha's Violet x *Phal.* Golden Buddha	F.J.Bergman
Fred's Itch	*Phal.* Penang Girl x *Phal.* Green Mist	F.J.Bergman
Fred's Ivy	*Phal.* Golden Buddha x *Phal.* Super Stupid	F.J.Bergman
Fred's Napalm	*Phal.* Ambo Choon x *Phal.* Golden Buddha	F.J.Bergman
Fred's Search	*Phal.* Gayle Ann x *Phal.* Fred's White Perfection	F.J.Bergman
Fred's Ultra	*Phal.* Fred's Catwalk x *Phal.* Devon Ace	F.J.Bergman
Fred's Undine	*Phal.* Fortune Buddha x *Phal.* Melodious Bells	F.J.Bergman
Fred's Xenira	*Phal.* Brother Plum x *Phal.* Brother Flare	F.J.Bergman
Giant Terry	*Phal. gigantea* x *Phal.* Deventeriana	P.van Adrichem
Gold Digger	*Phal.* Brother Golden Fortune x *Phal.* Brother Oxford	John H.Miller
Hampshire Cotton Candy	*Phal.* Hinamatsuri x *Phal.* Malibu Dandy	Arnold J.Klehm
Hungsinton Rose	*Phal.* Hsinton Rose x *Phal.* Lien-Hung Rose	Orchids Ltd [MN](O/U)
Imp's Fortune	*Phal.* Fortune Buddha x *Phal.* Brother Imp	Sky Island(O/U)
Kaaladian Rose	*Phal.* Taisuco Kaaladian x *Phal.* Hungsinton Rose	Orchids Ltd [MN](O/U)
Kingfisher Gold	*Phal.* Hausermann's Goldcup x *Phal.* Brother Lawrence	P.van Adrichem
Kuo's Red Rose	*Phal.* Golden Sun x *Phal.* Auspice Claret	Kuo Shih Che
Lawless Red Peppers	*Phal.* Carmela's Brite Lites x *Phal.* Brother Pirate King	G.Lawless(Carmela)
Mambotris	*Phal.* Mambo x *Phal. equestris*	R.Bedard
Maui Spots	*Phal.* Golden Peoker x *Phal.* Mivac Dottissimo	Exotic Orchids
Miva Albert Louaisil	*Phal.* Miva Casablanca x *Phal.* Miva Granny	Michel Vacherot
N'hu Nguyen	*Phal.* Brother Rose x *Phal.* Golden Bells	John H.Miller
Nobby's Black Grosbeak	*Phal.* Grosbeak x *Phal.* Black Eagle	Nobby Orch.
Nobby's Golden Angel	*Phal.* Taisuco Glory x *Phal.* Brother Pico Sweetheart	Nobby Orch.
Nobby's Golden Ring	*Phal.* Sunrise Red Peoker x *Phal.* Nobby's Pajero	Nobby Orch.
Nobby's Green Eagle	*Phal.* Gelblieber x *Phal.* Nobby's Fox	Nobby Orch.
Nobby's Pacific Sunset	*Phal.* Nobby's Black Grosbeak x *Phal.* Caribbean Sunset	Nobby Orch.
Nobby's Pumpkin	*Phal.* Sunrise Red Peoker x *Phal.* Brother Sara Gold	Nobby Orch.
Nobby's Sara Beauty	*Phal.* Sara Lee x *Phal.* Chingruey's Beauty	Nobby Orch.
Orchidkonnection Fancy	*Phal.* Brother Fancy x *Phal. venosa*	Orchid Konnection
Orchidkonnection First	*Phal.* Memoria Joe Dassa x *Phal.* Paul Tatar	Orchid Konnection
Orchidom Cloud Mist	*Phal.* Taisuco Kaaladian x *Phal.* Norman's Mist	N.Mountford
Orchidom Elaine	*Phal.* Escalation x *Phal.* Elaine Taylor	N.Mountford
Orchidom Empress Liz	*Phal.* Empress x *Phal.* Escalation	N.Mountford
Paul Smith	*Phal.* Glad Lip x *Phal. amabilis*	E.S.Wright
Peter Blue Diamond	*Phal.* Tzu Chiang Litlitz x *Phal. violacea*	W.H.Chen
Pixie Darling	*Phal. aphrodite* x *Phal.* Be Tris	Stones River(Stewart Orch.)
Point des Pas	*Phal.* Rocheport x *Phal.* Auslese	E.Young O.F.
Rainbow Green Jade	*Phal.* Timothy Christopher x *Phal.* Chang Maw Jade	D.S.Chang
Rocco Tower	*Phal.* Lippeperle x *Phal.* Auslese	E.Young O.F.
Rose Pink	*Phal.* Pink Challenge x *Phal.* Maui Belle	Exotic Orchids
Santa Cruz Sweetheart	*Phal.* Nobby's Amy x *Phal.* Dawn Treader	R.Bedard
Sekson Setavoraphan	*Phal.* Intermedia x *Phal. lowii*	C.G.Tobia

NAME	PARENTAGE	REGISTERED BY
Shenandoah Daybreak	*Phal.* Golden Daybreak x *Phal.* Pink Fussion	Brennan's
Shenandoah Stardust	*Phal.* Shenandoah Spots x *Phal.* Carmela's Wild Thing	Brennan's
SIO's Candy Cane	*Phal.* Be Glad x *Phal.* Imp's Fortune	Sky Island
SIO's Date Line	*Phal.* Golden Peoker x *Phal.* Taisuco Date	Sky Island
SIO's Glory Be	*Phal.* Be Glad x *Phal.* Taisuco Glory	Sky Island
SIO's Wild Delight	*Phal.* Adelaide's Delight x *Phal.* Brother Wild Dorothy	Sky Island
Somya Thammasiri	*Phal. equestris* x *Phal.* Kuntrarti Rarashati	K.Thammasiri
Super Nova	*Phal.* Ever-spring King x *Phal.* George Vasquez	John H.Miller
Tang's Penang Jade	*Phal.* Princess Kaiulani x *Phal.* Buena Jewel	C.Tang Choon Hoe
Tarlac Jewel	*Phal.* Tarlac Bellina x *Phal. bellina*	C.G.Tobia
Terry's Goodheart	*Phal.* Brother Pico Sweetheart x *Phal.* Zuma's Pixie	Rodney Jones
Tetra Bell	*Phal. bellina* x *Phal. tetraspis*	Orchids Ltd [MN](R-J.Quené)
Texas Purple	*Phal.* Texas Mist x *Phal.* Brother Purple	John H.Miller
Time To Rejoyce	*Phal.* Mama Cass x *Phal.* Kaaladian Rose	Orchids Ltd [MN](J.Crozier)
Tsunami Warning	*Phal.* Brother Jungle Cat x *Phal.* Nobby's Amy	A.Black
Tying Shin Holiday	*Phal.* Brother Sweet Sugar x *Phal.* Chang Maw Evergreen	Kuo Liang Hung
Tying Shin Lemon	*Phal.* Brother Trekkie x *Phal.* Yungho Gelb Canary	Kuo Liang Hung
Vuyna Huynh	*Phal.* Golden Gift x *Phal.* Yellow Vision	John H.Miller
Yum Yum Stripes	*Phal.* Chih Shang's Stripes x *Phal.* Ho's Fancy Leopard	D.Chong
Zuma Mantoria	*Phal.* Astoria x *Phal.* Mancini	Orchid Konnection(Zuma Canyon)
PHRAGMIPEDIUM		
Leslie Ee	*Phrag.* La Moye x *Phrag.* Sedenii	Black Dragon
Memoria Neil Mitchell	*Phrag. lindleyanum* x *Phrag. richteri*	Black Dragon
Mourier Bay	*Phrag.* Jason Fischer x *Phrag.* Hanne Popow	E.Young O.F.
Olaf	*Phrag. richteri* x *Phrag. dalessandroi*	O.Gruss
Quiet Dragon	*Phrag. lindleyanum* x *Phrag. tetzlaffianum* ¶	Black Dragon
Rocheport	*Phrag.* Grouville x *Phrag.* Hanne Popow	E.Young O.F.
Rosy Glow	*Phrag.* Jason Fischer x *Phrag. schlimii*	Orch.by Ackers
Saint Eligius	*Phrag.* Saint Ouen x *Phrag. schlimii*	Little Frog Farm(Orchid Zone)
Sophie Vucurevich	*Phrag.* Silver Eagle x *Phrag. besseae*	A.Atkinson
POTINARA		
A Little Lucky	*Pot.* Little Suzie x *Blc.* Lucky Strike	G.W.Healing(O/U)
California Coronation	*Slc.* California Apricot x *Blc.* Pamela Hetherington	Royale Orch.(A.Easton)
Cameron's Magnetism	*Pot.* Afternoon Delight x *C. aurantiaca*	H.Pigors
Chang Jhih Goldboy	*Pot.* Jong Jou Moat x *Blc.* Tainan Gold	Wei Ming Lee(Wan Yi Guo)
Circadia	*Pot.* Kadidit x *Slc.* Circle of Life	R.Stone
Cosmo-Austin	*L.* Canariensis x *Pot.* Cosmo-Zelle	Kokusai
Cosmo-Jinncall	*Pot.* Love Call x *Sl.* Jinn	Kokusai
Emily Jane Moller	*Pot.* Pomona Pixie x *Blc.* Oconee	B.N.Jones
Ever Rich	*Lc.* Mini Purple x *Pot.* Japanese Dream	Haruo Sato(Tamura Orch.)
Exposé	*Slc.* Jillian Lee x *Pot.* Free Spirit	Royale Orch.
Gabriel Castro	*C.* Netrasiri Fireball x *Pot.* Netrasiri Starbright	Malvarosa
Great Starbright	*Pot.* Thi-Ti x *Pot.* Netrasiri Starbright	Wei Ming Lee(An Hong Syu)
Helga Margaret Grey	*Pot.* Red Crab x *Blc.* Pokai Tangerine	S.Barani
Indomitable Gayle Shann	*Slc.* Neva Farnsworth x *Pot.* Free Spirit	B.N.Jones
Jared's Jewel	*Pot.* Afternoon Delight x *Slc.* Jewel Box	H.Pigors
Judge Gayle	*Slc.* Summerville x *Pot.* Free Spirit	B.N.Jones
Katherine Hattem Crozer	*Pot.* Carolina Splendor x *Slc.* Ruffles	A.Chadwick(Lenette)
Kotan's Eagle	*Pot.* Moonlight Kotan x *C. walkeriana*	T.Yuhora
Kotan's Lip	*Pot.* Moonlight Kotan x *L. praestans*	T.Yuhora
Lo's Mari's Love	*Pot.* Shinfong Little Love x *Lc.* Mari's Song	Lo's Orchids
Merinda Starr	*B.* Little Stars x *Slc.* Merinda Lust	M.Edgerton
Miura Charm	*Pot.* Miura Star Sound x *Slc.* Magic Power	M.Inamine
Nathan John Moller	*Pot.* Hisako Akatsuka x *Blc.* Mount Isa	B.N.Jones
Orquidacea's Diana Bell	*Slc.* Rosemary Clooney x *Blc.* Pokai Tangerine	R.Giorchino
Orquidacea's Estrela Veloz	*Slc.* Hazel Boyd x *Bl.* Richard Mueller	R.Giorchino
Orquidacea's Garota Real	*Sc.* Beaufort x *Blc.* Haw Yuan Moon	R.Giorchino
Orquidacea's Loving Stripes	*Lc.* João Antonio Nicoli x *Pot.* Orquidacea's Glory	R.Giorchino
Orquidacea's New Galery	*Blc.* Haw Yuan Moon x *Slc.* Seagulls Landing	R.Giorchino
Orquidacea's Rubi Star	*C. luteola* x *Pot.* Orquidacea's Glory	R.Giorchino
Pamela Lee Moller	*Pot.* Susan Fender x *Blc.* Goldenzelle	B.N.Jones
Petitpetit Happy	*C.* Candy Tuft x *Pot.* Angel Kiss	K.Taguchi
Rebecca Ann Moller	*Pot.* Subtle Vanity x *Pot.* Love Call	B.N.Jones
Red Cat	*Pot.* Vallespin x *Lc.* Mini Purple	M.Inamine
Red Rabbit	*Pot.* Red Cat x *Slc.* Love Castle	M.Inamine
Redland Applause	*Pot.* Goldemell x *Lc.* Aussie Sunset	L.Sakrzewski
Redland Ceramics	*Slc.* Anne Tapper x *Blc.* Waianae Leopard	L.Sakrzewski

NAME	PARENTAGE	REGISTERED BY
Redland Glory	*Pot.* Sally Taylor x *Blc.* Serene Sunset	L.Sakrzewski
Redland Jester	*Blc.* Erin Kobayashi x *Sc.* Lana Coryell	L.Sakrzewski
Rosenbec	*Sl.* Isabelle Stone x *Blc.* Sweet Anniversary	Haruo Sato
Shinfong Pink	*Lc.* Irene Finney x *Pot.* Red Cat	W-C.Hung
Subtle Distraction	*Pot.* Fortune Teller x *Lc.* Lisa Ann	B.N.Jones(Carter & Holmes)
Subtle Vanity	*Blc.* Malibu Gem x *Slc.* California Apricot	B.N.Jones(Fordyce)
Sunrise Sonata	*Slc.* Memoria Matthew Wise x *Bc.* Daffodil	O.J.Bromfield
Suzuki's Golden Light	*Pot.* Lemon Tree x *Slc.* Camila Suzuki	C.K.Suzuki
Suzuki's Lemon Tree	*Blc.* Chyong Guu Chaffinch x *Pot.* Lemon Tree	C.K.Suzuki
Suzuki's Mini Sunshine	*S. coccinea* x *Blc.* Waikiki Sunset	C.K.Suzuki
Taiwan Doll	*Pot.* Hwa Yuan Doll x *Blc.* Hwa Yuan Lady	Orchis Flor.
Taiwan Tong-Hoa	*Blc.* King of Taiwan x *Pot.* Shinfong Beauty	Tong He Li
Village Chief Chanel	*Pot.* Little Toshie x *Blc.* Tzeng-Wen Beauty	Chih-Cheng Chen
Village Chief Emerald	*Blc.* Prada Green Nation x *Pot.* Kat Green Power	Chih-Cheng Chen
PROSTHECHEA		
Tony Millet	*Psh. garciana* ¶ x *Psh.* [*Epi.*] *vitellina* [*vitellinum*]	A.Millet
RECCHARA		
Honky Tonk Woman	*Schom. undulata* x *Blc.* Bouton D'Or	A.Chadwick(Lenette)
RENANTHERA		
Chanachai	*Ren.* Manila x *Ren. storiei*	T.Orchids
RESTREPIA		
Coup D'Etat	*Rstp. cuprea* ¶ x *Rstp. dodsonii* ¶	Trop.O.Farm
RHINOCHILUS		
Capel	*Sarco.* Cherie x *Rhin. divitiflora*	W.Howey(O/U)
RODRICIDIUM		
Elishea Hidajat	*Onc. obryzatum* x *Rdza. lanceolata* [*secunda*]	Woon Leng Nurs.
RONMAUNDERARA *		
Paradise	*Mclna.* Pagan Lovesong x *Bapt.* [*Onc.*] *echinata* [*brunleesianum*]	Paradise [NZ]
SARCOCHILUS		
Little Angel	*Sarco.* Otways Sunset x *Sarco. fitzgeraldii*	D.& L.Brown
Marina Harriott	*Sarco. ceciliae* x *Sarco.* [*Prcls.*] Velvet	Royale Orch.
Royale Red	*Sarco.* Royale Ruby x *Sarco.* Cherie	Royale Orch.
Royale Ruby	*Sarco.* Fitzhart x *Sarco.* Hot Ice	Royale Orch.(S.Batchelor)
SOPHROCATTLEYA		
Brassy Imp	*C. guttata* x *Sc.* Beaufort	R.B.Cole(Long Life[USA])
Royal Gem	*Sc.* Luton Charm x *Sc.* Calypso	K.& B.Beale
SOPHROLAELIOCATTLEYA		
Acker's Romance	*Lc.* Acker's Madison x *Slc.* Golden Wax	Orch.by Ackers
Angel Cloud	*Slc.* Bright Angel x *Slc.* Dream Cloud	J.Martin
Best Kanzer	*Slc.* Best Friend x *Sl.* Andrew Kanzer	Haruo Sato(Tamura Orch.)
Cal Magic	*Slc.* California Apricot x *Lc.* Tokyo Magic	R.B.Cole(O/U)
Chris Magic	*Lc.* Dorset Gold x *Slc.* Dorothy Watkins	R.Giorchino(O/U)
Clarice Costa	*Slc.* Suzuki x *Slc.* Madge Fordyce	C.K.Suzuki
Elusive Heartbeat	*Slc.* Elusive Dream x *Slc.* Mari's Beat	D.Neuendorff
Fire Magic	*Lc.* Tokyo Magic x *Slc.* Fire Fantasy	H & R
Fort Farce	*Slc.* Yeong-Huei Chen x *Sc.* Beaufort	Haruo Sato(Tamura Orch.)
Hazel Ann	*Lc.* Orange Ann x *Slc.* Hazel Boyd	R.Stone
Hazel's Doll	*Slc.* Hazel Boyd x *Slc.* Fran's Doll	Tudor[NZ]
Heavenly Bouquet	*Slc.* Circle of Life x *Lc.* Helen Christie	Fordyce
Kotan's Whisper	*Slc.* Pumi Lynn x *Lc.* Lady Yasuko	T.Yuhora
Land Park	*Lc.* Nice Holiday x *Sc.* Beaufort	Haruo Sato(Tamura Orch.)
Land Pixie	*Slc.* Ken Dream x *C.* Cherry Chip	Haruo Sato
Lovable Joey	*Lc.* Color Guard x *Slc.* Naomi Kerns	Malvarosa
Love Kanzer	*Slc.* Love Castle x *Sl.* Andrew Kanzer	Haruo Sato(Tamura Orch.)
Magic Beau	*Slc.* Cal Magic x *Sc.* Beaufort	R.B.Cole(Long Life[USA])
Margie Kepley	*Slc.* Sierra Doll x *Lc.* Twilight Song	Woodland
Memoria Anon Mungma	*Slc.* Dream Cloud x *C.* Memoria Jerome Shultz	J.Martin
Orquidacea's Raising Star	*Slc.* Hazel Boyd x *C. guttata*	R.Giorchino
Pat Thrall	*Lc.* Bonanza Queen x *Slc.* Circle of Life	F.Thrall(R.Tokunaga)

NAME	PARENTAGE	REGISTERED BY
Petitpetit Prince	*C.* Candy Tuft x *Slc.* Princess Pelu	K.Taguchi
Petitpetit Skip	*Slc.* Memoria Alvin Begeman x *Slc.* Princess Pelu	K.Taguchi
Precious Ruby	*Slc.* Rajah's Ruby x *Slc.* Precious Jewel	R.B.Cole(O/U)
Purple Puff	*Slc.* Purple Jewel x *L. pumila*	R.B.Cole
Radiant Energy	*Slc.* Tangerine Jewel x *Lc.* Balkis Burgundy	Rex Foster Orchids
Rainbow Royale	*Lc.* Mari's Song x *Slc.* Dal's Buddy	Royale Orch.
Ruby Royale	*Slc.* Precious Jewel x *S.* Arizona	Royale Orch.
Sarah Angel	*Slc.* Bright Angel x *Slc.* Wendy's Valentine	Royale Orch.
Sunbeam Silk	*Lc.* Liz Streeter x *Sc.* Beaufort	Fordyce
Tiny Angel	*Slc.* Tiny Titan x *Slc.* Bright Angel	J.Martin
SPATHOGLOTTIS		
Jane Goodall	*Spa.* Lion of Singapore x *Spa. plicata*	Singapore Bot.Gdns
Joyce Stewart	*Spa.* Lion of Singapore x *Spa. unguiculata*	Singapore Bot.Gdns
STEPHENMONKHOUSEARA		
Jane Rook	*Hmwsa.* Lizzie x *Zba.* [*Zcx.*] Amesianus	R.Stevens(George Black)
TOLUMNIA		
Champagne Bay	*Tolu.* [*Onc.*] Sundown Bay x *Tolu.* [*Onc.*] Champagne Lady	A.Aldrich
Harborside	*Tolu.* [*Onc.*] Two Gentlemen x *Tolu.* [*Onc.*] Aleka	A.Aldrich
Lonesome Reef	*Tolu.* [*Onc.*] Sundown Reef x *Tolu.* [*Onc.*] Hawaiian Sunset	A.Aldrich
Seasprite	*Tolu.* [*Onc.*] Dandy x *Tolu.* [*Onc.*] Galveston Bay	A.Aldrich
Spanish Grant	*Tolu.* [*Onc.*] Ursula Hild x *Tolu.* [*Onc.*] Surfer Sam	A.Aldrich
TRICHOCIDIUM		
Vicky Spence	*Trt.* [*Onc.*] *pumilum* ¶ x *Trt.* [*Trcdm.*] Winona	G.Spence
VANDA		
Alexander	*V.* Sujitra x *V.* Bhimayothin	W.Hoffman(Kultana)
Allan Stein	*V.* Somsri Delight x *V.* Ponpimol	R.F. Orchids(Patsanan)
Bruce Danforth	*V.* [*Eua.*] *sanderiana* x *V.* Charles Goodfellow	R.F. Orchids(Patsanan)
Christa Collins	*V.* Fuchs Delight x *V.* Rosie O'Donnell	R.F. Orchids(Patsanan)
Doña Argelia Godínez	*V.* Doctor Anek x *V.* Lenavat	R.F. Orchids(Patsanan)
Gina Marie	*V.* Deva x *V.* Doctor Anek	E.Schue(Kultana)
Ileana Ros-Lehtinen	*V.* Sem's Delight x *V.* Sunray	R.F. Orchids(Patsanan)
Khao Lak	*V.* Madame Rattana x *V.* Kenji	T.Orchids
Manon	*V.* Mae Sai x *V.* Nina	Les Epidendrums(T.Orchids)
Mary Eleanor Graham	*V.* Madame Rattana x *V.* Keeree's Delight	R.F. Orchids(Patsanan)
Papob	*V.* Katsuura x *V.* Manuvadee	P.Chindavat
Scott Thompson	*V.* Darres' Golden Heritage x *V.* Fuchs Sunbeam	R.F. Orchids
Srisuk	*V. denisoniana* x *V. bensonii*	S.Srisuk
Susan Best	*V.* Sem's Delight x *V.* Pat Delight	R.F. Orchids(Patsanan)
Victoria's Glory	*V.* Red Ball x *V.* Doctor Anek	E.Schue(Kultana)
VANDAENOPSIS		
Millie's Blue Heaven	*V. coerulea* x *Phal. equestris*	A.Pickrel(G.Snellenburger)
VANVANDA		
Crownfox Odyssey	*Vvd.* [*Opsis.*] Lum Sau Heng x *V. tessellata*	R.F. Orchids
VASCOSTYLIS		
Merinda Sweetness	*Ascda.* Princess Mikasa x *Rhy. coelestis*	M.Edgerton
VUYLSTEKEARA		
Lawless Fidelio	*Vuyl.* Memoria Mary Kavanaugh x *Oda.* Wearside Pattern	G.Lawless(T.Perlite)
Oliver Andrew	*Vuyl.* Cambria x *Oda.* Lynx	Keith Andrew Lab
Red Trooper	*Vuyl.* Cambria x *Oda.* Remembrance	Keith Andrew Lab
Wyatt's Torch	*Vuyl.* Cambria x *Odm. harryanum*	J.& F.Coker(A.Easton)
WILSONARA		
Everglades Sundown	*Wils.* Archirondel x *Oda.* Sleeping Parade	Everglades
Florida Sands	*Onc.* Illustre x *Oda.* Koo-wee-rup	Everglades
Golden 50th	*Odcdm.* Golden Trident x *Oda.* Eric Young	A.Millet
Green Valley Plum Blossom	*Wils.* Bonne Nuit x *Odcdm.* Hans Neuenhaus	Chen-Fong Chao(Fu-Lai Chang)
Hotspot	*Wils.* Newton Fire x *Wils.* Spaceman	H.Liebman(J.Rehfield)
Lewis Freeman Good	*Odcdm.* Tiger Butter x *Oda.* Mont Remon	J.L.Walker(Orchid House)
San Damiano Love	*Oda.* Alstir x *Oncda.* [*Cha.*] Nobilis	J.L.Walker(Orchid House)

NAME	PARENTAGE	REGISTERED BY
ZYGONERIA		
Freestyle Meadows	*Z.* Freestyle x *Zga.* Adelaide Meadows	Taisuco America(Adelaide)
ZYGOPETALUM		
Carolyn Southwood Karges	*Z. intermedium* x *Z. mackayi*	Southwood Orch.
Marilyn Southwood Stemaly	*Z.* Syd Monkhouse x *Z. mackayi*	Southwood Orch.

*New or new to registration, intergeneric hybrid genus with abbreviation (in square brackets after the genus name) for the following combinations. The botanical authority follows each component genus.
Aspomesa [*Apm.*] J.M.H.Shaw = *Aspasia* Lindl. x *Gomesa* R.Br.
Ronmaunderara [*Ron.*] R.Maunder = *Baptistonia* Barb.Rod. x *Brassia* R.Br. x *Odontoglossum* Kunth x *Oncidium* Sw.

¶ Species appearing for the first time as parents in registration: ***Dendrobium cunninghamii*** Lindl.; ***Masdevallia rex*** Luer & Hirtz; ***Phragmipedium tetzlaffianum*** O.Gruss; ***Prosthechea garciana*** (Garay & Dunst.) H.E.Higgins; ***Restrepia cuprea*** Luer & Escobar; ***Rstp. dodsonii*** Luer; ***Trichocentrum pumilum*** (Lindl.) M.W.Chase & N.H.Williams.

CORRECTIONS

Aerides
In the past, the register has treated *Aerides* Lour. as though it were a feminine name, whereas it should have been regarded as neuter. This requires that the suffix of many species epithets be changed from -a to -um, as in the following examples: crassifolia to crassifolium, falcata to falcatum, japonica to japonicum, etc.
At the same time opportunity was taken to recognise *Aerides houlletianum* which replaces *Aerides falcata* var. *houlletiana*. This results in a change of registered parent for *Aeridovanda* Permmit (1974) and Photisan (1971).

***Brassolaeliocattleya* Baladin** (1958) and *Blc.* Touraine (1987) have been found to have the same parentage, consequently, *Blc.* Touraine becomes a synonym of *Blc.* Baladin. Thanks to Olof Frisk for bringing this to the registrar's attention.

***Cycnodes* Jumbo Puff** and ***Cycnodes* Taiwan Gold**. Following a redetermination of plants called *Cyc. chlorochilon* 'Jumbo' as *Cyc. warscewiczii*, Andy Chen of Jumbo Orchids, Taiwan has asked that all Jumbo Orchids registrations listing *Cyc. chlorochilon* 'Jumbo' as a grex parent be changed to read *Cyc. warscewiczii* 'Jumbo' as the parent. This means that plants obtained from Jumbo Orchids and since registered as *Cycnodes* Taiwan Gold (Orchis Flor., 2004) and published in *Orch. Rev. Suppl.* 112(1258): 52 (July 2004) are the same as plants previously registered by Jumbo Orchids as *Cycnodes* Jumbo Puff (Jumbo Orch., 2001). Registered hybrids affected by this change are: *Cycd.* Jumbo Bay; *Cycd.* Jumbo Ecstatic; *Cycd.* Jumbo Erebus; *Cycd.* Jumbo Puff (syn. *Cycd.* Taiwan Gold); *Cycd.* Jumbo Vision; *Cloughara* Jumbo Pandora; *Clowenoches* Jumbo Valor.

***Dendrobium* Australian Star** was published with the wrong pollen parent in *Orch. Rev. Suppl.* 112(1260): 85 (Nov. 2004), for Mario please read Miara.

***Dendrobium* Vellayani Sakura Fairy** appeared in *Quart. Suppl. Int. Reg. Orch. Hyb.* 8 (March 2005), as *Den.* Indira Ghandi, please change the name at the request of the registrant.

***Doritaenopsis* Taida Golden Manager** appeared in *Orch. Rev. Suppl.* 111(1249): 6 (Jan. 2003), as Taida Golden Manger, please correct the spelling.

***Herbertara* Daphne Hinds** appeared under *Schombocattleya* by error in *Quart. Suppl. Int. Reg. Orch. Hyb.* 19 (March 2005).

***Laeliocattleya* Anita and *Lc.* Arabis** were both named by Mansell and Hatcher in 1921 with the same parentage, *Lc.* Saint Gothard x *C.* Armstrongiae. *Lc.* Anita has been accepted, in preference to *Lc.* Arabis.

***Laeliocattleya* Conceição Alvino De Souza** was published with the wrong spelling in *Orch. Rev. Suppl.* 112(1258): 55 (July 2004).

***Lealiocattleya* Mirabelle and *Lc.* Miranda** were both recorded in 1940 with the same parentage of *Lc.* Adonis x *Lc.* Sargon. Since the epithet Miranda is also in use for grex names in *C., Bc., Blc.* and *Slc.* it is now treated as a synonym of *Lc.* Mirabelle.

***Paph.* Boltonii is a synonym of *Paph.* Muriel Hollington.**
Josep M. Puig Vwerdura has kindly drawn the registrar's attention to a study by Kohji Karasawa (1981), A review of chromosome numbers in some hybrids of *Paphiopedilum*, *Bull. Hiroshima Bot. Gard.* 4: 1-8, which concluded that the parentage of *Paph.* Boltonii, listed in the register as of unknown parentage, was *Paph. insigne* x *Paph. niveum*. By coincidence, other records of this grex came to light in *Gard. Chron.* 46: 364, 407 (1909); *Gard. Mag.* 1909: 947; *Journ. of Hort.* 59: 529, f. (1909); and *Kew Bull.* 1909(App. 3): 65, which noted, 'A garden hybrid probably between *Paph. insigne* 'Sanderae' and *Paph. niveum*. The flowers are wax-like and of the purest white, with a few minute dark spots on the lower part of the dorsal sepal.' As a result, *Paph.* Boltonii (1909) is now treated as a synonym of *Paph.* Muriel Hollington (1891). However, parentage of the greges registered with *Paph.* Boltonii as a parent have not been changed.

***Paphiopedilum* Goliath** has for some time been recorded as of unknown parentage in the Register. However, as Josep M. Puig Vwerdura recently pointed out to the registrar, the Hermans index of RHS Orchid Awards 1841-2002 CD-ROM states that *Paph.* Goliath received an AM/RHS on 2 Dec 1913 with the recorded parentage, *Paph. insigne* 'Harefield Hall' x *Paph.* Amy Moore, see *OR.*22: 24. Further research has revealed that the epithet Amy Moore appears in the literature both as a grex and also as a cultivar of *Paph.* Troilus. Therefore the register entry for *Paph.* Goliath has been changed to show the parentage *Paph. insigne* 'Harefield Hall' x *Paph. Troilus* 'Amy Moore', in agreement with *OR.* 28: 22 (1920). Furthermore, the register

contains the note, 'Very distinct from *Paph*. Dreadnought which has the same parentage'. Because of this comment, the parentage of the greges listed with *Paph*. Goliath as a parent has not been changed.

***Paphiopedilum* Ruby Slippers** was registered with the incorrect parentage by error. Please change the pollen parent to read *Paph*. Virgo instead of Sandra Lee gx, see *Orch. Rev. Suppl*. 110(1246): 59 (July 2002).

***Phalaenopsis* Walnut Valley Princess** (as Chiayi Spot x Ching Her Princess) **and *Phal*. Walnut Valley Red** (as Walnut Valley Princess x Sogo John).
Several years ago a plant labelled as *Phal*. Chiayi Spot x Ching Her Princess was mericloned and widely distributed. Several orchid nurseries in the USA carried the plant, including the Orchid Konnection in Dallas, Texas. Sometime later Mr Moses contacted many of his customers and informed them that this plant, originating from Ching Her Nursery in Taiwan, had been released with the wrong parentage on the tags. The correct parentage is thought to be *Phal*. Golden Sun x Ching Her Princess. Subsequently, this cross was registered by Ching Her as *Phal*. Ching Her's Light. The cross of *Phal*. Ching Her's Light x Sogo John was registered as *Phal*. Green Sun.
Sometime later, one of the mislabelled *Phal*. Chiayi Spot x Ching Her Princess, which was actually Golden Sun x Ching Her's Light, was registered in good faith as *Phalaenopsis* Walnut Valley Princess. Therefore *Phal*. Walnut Valley Princess is a synonym of *Phal*. Ching Her's Light. Similarly, *Phal*. Valley Red is a synonym of *Phal*. Green Sun.
A further cross, registered as *Phal*. Walnut Valley Magenta (Walnut Valley Red x Brother Purple) needs to have the parentage changed to *Phal*. Green Sun x Brother Purple.
Thanks to Albert Dean Stock of Canyon Orchids for bringing this to the registrar's attention.

***Potinara* Redland Firefly** appeared under *Blc*. by error in *Quart. Suppl. Int. Reg. Orch. Hyb*. 4 (March 2005).

***Vanda* Grove's Dream and *V*. Peregrino Lorenzo.**
The registration of the two grex names above to facilitate handling the separate colour races derived from the Red and Blue/purple flowered Groups of *Vanda coerulea* has caused consternation in some circles. Subsequently the AOS has requested that this not be permitted. While it is, of course, entirely permissible under the *International Code of Nomenclature for Cultivated Plants*, the registrar has agreed to accede to this request, with the result that *V*. Peregrino Lorenzo is now treated as a synonym of *V*. Grove's Dream. However, this epithet Peregrino Lorenzo will now be established as a Group within *V*. Grove's Dream grex, distinguished by red/pink flowers. *Vanda* Grove's Dream also contains a second Group distinguished by blue/purple flowers and known as Blue-flowered Group.

***Vandachostylis* Cranberry Glory** appeared under *Rhynchovanda* by error in *Quart. Suppl. Int. Reg. Orch. Hyb*. 19 (March 2005).

***Wilsonara* Nancy Diamond** appeared under *Odontioda* by error in *Quart. Suppl. Int. Reg. Orch. Hyb*. 12 (March 2005).

SANDER'S List of Orchid Hybrids Addendum 2002-2004

Publication date 20th May 2005. Should be widely available by the time this Supplement is published.

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REGISTRAR'S NOTES

The correct name for the hybrid *Bifrenaria* x *Lycaste*.
For many years the Register has employed the generic name *Lycasteria* for this cross, however a reconsideration of the literature shows that it is predated by two other hybrid generic designations.
Lycastenaria [Ly.] Colman, *Hybridization of Orchids* 80 (1933).
Synonyms: *Lycasteria* [Lystr.] W.Cook & D.Sander in *Orch. Rev*. 62(732): 92 (June 1954).
Lyfrenaria [Lyf.] McBean & L.Roper in *Gard. Chron*. ser. 3, 135: 175 (1954).
In *Orch. Rev*. 62(735): 140 (Sept. 1954) it is acknowledged that the choice of *Lycasteria* for this hybrid is against the principle of priority. The ICBN Art. 11.8 and ICNCP Div. III, 12 both indicate that for the purposes of priority, names of hybrid genera are subject to the same rules as are those of non-hybrid genera.

Hagsatera brachycolumna Tamayo
Recently the release of young plants of two hybrids involving this taxon has lead to the request for appropriate nothogenera, which are here provided.
Hagsavola [Hgv.] nothogen.nov. = *Brassavola* R.Br. x *Hagsatera* Tamayo, based on the unregistered grex *B. nodosa* x *Hag. brachycolumna*.

Hagsechea [Hgc.] nothogen.nov. = *Hagsatera* Tamayo x *Prosthechea* Knowles & Westc., based on the unregistered grex *Hag. brachycolumna* x *Psh. cochleata*.

Pescatorea* vs. *Pescatoria
The name of this well known genus has long been spelled as *Pescatorea* Rchb.f. in the Register, however this name dates from 1869 and is predated by *Pescatoria* Rchb.f., published in 1852. The Register will now use the earlier orthographic variant as that has priority.

Phragmipedium dalessandroi Dodson & O.Gruss was described in *Die Orchidee* (Hamburg) 47: 217 (1996). Olaf Gruss recalled being encouraged to do so by staff at the Eric Young Orchid Foundation, where it had been used extensively in hybridisation. Since then it has acquired a further name and status as *Phrag. besseae* var. *dalessandroi* (Dodson & O.Gruss) A.Moon & P.J.Cribb in *Orchid Rev*. 105: 229 (1997). After considering requests and comments from several sources the registrar has agreed to accept this taxon for registration as a grex parent. On the one hand it is well known that individual plants exist in the wild which are intermediate in characters between *Phrag. besseae* and *Phrag. dalessandroi*, a factor which favours treatment below the rank of species. One botanist with field work experience in Ecuador commented that that the situation appeared typical of a subspecies. Interestingly, several subspecies in *Paphiopedilum* are currently accepted as grex parents for the purpose of registration. On the other hand, current floristic literature for the region, such as Jorgensen & León-Yánez, *Cat. Vasc. Pl. Ecuador* 1999: 436 accepts *Phrag. dalessandroi* as a species, as does much of the current orchid literature. In this regard the recent discussion of *Phragmipedium* hybrids in *Die Orchidee* 55(2): 224 (2004) is of particular interest. The registrar is also anxious to avoid the situation that has developed in *Phalaenopsis* from the unfortunate consequences of lumping taxa under *Phal. lueddemanniana* for example. With these points in mind, *Phrag. dalessandroi* is accepted before the record of its use in breeding becomes lost.

Replacement of the name *Laelia rupestris* by *Laelia crispata*
Laelia rupestris Lindl. in *Bot. Reg*. 28, sub t.62 (1842) is a synonym of *L. crispata* (Thunb.) Garay in *Bradea* 1: 302 (1973), which has priority because of its earlier basionym, *Cym. crispatum* Thunb., *Plant. Bras*. 2: 18 (1818). Making this change in the register has resulted in *Lc*. Pink Crystal (2000) becoming a synonym of *Lc*. Star Pink (1980).

An unlikely hybrid appears in a recently published Flora of the Basque region of NE. Spain. Pages 721, 724 & 726, refer to ***Spilorhiza*** [Spil.] Hermosilla, Fernandez & Undagoitia = *Dactylorhiza* Necker ex Nevski x *Spiranthes* L.C.M.Richard, based on the putative natural hybrid *Spilorhiza diversiflora* Hermosilla, Fernandez & Undagoitia (*Dact. elata* (Poir.) Soó x *Spir. aestivalis* (Poir.) L.C.M.Rich.), original publication not yet traced. Would anyone like to try and synthesise this cross? Ref. Aizpuru, I., Aseginolaza, C., Uribe-Echebarria, P.M., Urrutia, P. & Zorrakin, I. (2003) *Claves ilustradas de las Flora del Pais Vasco y territorios limitrofes.* Eusko Jaurlaritzaren Argitalpen Zerbitzu Nagusia/ Servicio Central de Publicaciones del Gobierno Vasco, Vitoria-Gasteiz.

Establishment of Groups
Since the early days of orchid hybridisation the problem of how to name several hybrids that are between the same species but involve different infra specific parents, that are considered significant, has been a source of difficulty. See for example the note above under *Vanda* Grove's Dream and *V*. Peregrino Lorenzo for a recent example.
One possibility, here used as a working hypothesis, is the establishment of Groups based on description, within a grex based on parentage, an idea which has met with acceptance from ICNCP commissioners. Descriptions vary in detail, style and quality as they are provided by the originators. Please note that Group may be contracted to Gp and that grex should be contracted to gx in preference to g.

Cypripedium Boots gx **Christopher Group** derived from *Cyp. calceolus* var. *calceolus* x *Cyp. montanum*. Raised by Peter Corkhill. Description: Flower size intermediate between parents, like a small *Cyp. calceolus*. Petals and sepals dark maroon, petals long, narrow and twisted. Slipper colour white with a lemon haze, area around orifice suffused with rose pink with etched pink lines on the slipper body. Staminode yellow, triangular, spotted with red.
Notes: The original registration of *Cyp*. Boots grex by H. Pinkepank was based on plants derived from *Cyp. calceolus* var. *flavescens* x *Cyp. montanum*. It is easily distinguished from Christopher Group by sepals and petals being golden-yellow, with some reddish veining towards base of dorsal sepal.

Paph. Calloso-barbatum gx **Norman Atkinson Gp** derived from *Paph. barbatum var. nigritum* 'Dyak Warrior' x *Paph. callosum* var. *viniferum* 'Jac'. Raised by Agnes Atkinson, made 12 Dec 1998, f. fl. 16 Nov 2004. Description: 'Dorsal sepal green, red and white. Petals red and green; pouch red; staminode light red.'

Paph. Nori's Bell gx **Aoinokimi Gp** derived from *Paph. bellatulum* x *Paph*. Norito Hasegawa. Raised by Toshinori Tanaka, made 10 Apr 1998, f. fl. 20 Dec 2004. Description: 'Natural spread of flower 11 cm, petal width 4.6 cm. Petals and sepals slightly pointed at top. Dorsal sepal, ventral sepal, petals and pouch are yellowish creamy green. The dorsal sepal is slightly darker in colour. Purple brown spots irregularly cover the petals and sepals, more densely towards the centre and more scattered towards the periphery. Spots are absent from the pouch interior, the interior is heavily spotted with tiny purple brown dots. The staminode is white with dark purple red on the lower half.'
The original Nori's Bell grex was derived from *Paph. bellatulum* 'Album' x *Paph*. Norito Hasegawa.

Paph. Uri Baruk gx **Akitsuhime Gp** derived from *Paph*. Norito Hasegawa x *Paph . godefroyae* 'Ang-Thong'. Raised by Toshinori Tanaka, made 15 Apr 1999, f. fl. 21 Nov 2004. Description: 'Flower, natural spread 9.5 cm, petal width 5 cm. Dorsal sepal is pointed a little bit at he top, pale creamy green, a little darker than other tepals. Ventral sepal, petals and pouch pale creamy green, petals rounded at the top. Sepals with very tiny purple-brown spots all over, becoming more dense towards the centre. Pouch without spots on exterior, with tiny purple brown spots increasing heavily towards the base and inside. Staminode white with lower half dark purple red.

New combinations in x *Serapicamptis*

The following new combinations accommodate natural hybrids between *Anacamptis* and *Serapias*, following the expansion of *Anacamptis* to include several species previously included in *Orchis*. There remains one genuine *Orchiserapias*: x *Orchiserapias dufforti* E.G.Camus, Monogr. Orchid.: 68 (1908). A hybrid of *Orchis purpurea* x *Serapias lingua*. Type from France. Syn. *Serapias* x *dufforti* E.G.Camus, Monogr. Orchid.: 68 (1908).

x **Serapicamptis anatolica** (Renz & Taubenheim) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias anatolica* Renz & Taubenheim in Die Orchidee, 32(4): 148 (1981) as *Anacamptis* (*Orchis*) *laxiflora* x *Serapias vomeracea* subsp. *orientalis* (*Serapias orientalis*).

x **Serapicamptis barlae** (E.G.Camus) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias barlae* E.G.Camus in Morot, Journ. de Bot. 6: 33 (1894) as *Anacamptis* (*Orchis*) *papilionacea* x *Serapias lingua*.

x **Serapicamptis bevilacquae** (Penz.) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias bevilacquae* Penz. in Atti Soc. Ligust. Sci. Nat. Geogr. 20(1909); as *Anacamptis* (*Orchis*) *morio* x *Serapias neglecta*. See also Die Orchidee 44(3): 126-128 (May 1993).

x **Serapicamptis complicata** (E.G.Camus) J.M.H.Shaw comb. nov. Basionym : x *Orchiserapias complicata* E.G.Camus in Morot, Journ. de Bot. 6: 34 (1894); as *Anacamptis* (*Orchis*) *laxiflora* x *Serapias lingua*. Syn. *Orchis complicata* (E.G.Camus) Rouy, Fl. France, 13: 177 (1912); x *Orchiserapias capitata* E.G.Camus. x *Orchiserapias timbalii* (K. Richt.) H. Baumann & S. Kunkelein Mitt. Arbeitskr. Heim. Orch. Baden-Wurttemberg. 21(3): 839 (1989); *Serapias* x *timbalii* K.Richt.

x **Serapicamptis correvonii** (E.G.Camus & A.Camus) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias correvonii* E.G.Camus & A.Camus in Riv. Scient., 11: 61 (1924) as *Anacamptis* (*Orchis*) *morio* x *Serapias lingua*

x **Serapicamptis debeauxii** (E.G.Camus) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias debeauxii* E.G.Camus in Morot, Journ. de Bot. 6: 34 (1894) as *Anacamptis* (*Orchis*) *papilionacea* x *Serapias cordigera*. Syn. *Orchis stupratová* Briq.

x **Serapicamptis ducoroniae** (P.Delforge) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias ducoroniae* P.Delforge in Nat. Belg., 73(3): 127 (1992) as *Anacamptis* (*Orchis*) *morio* x *Serapias orientalis subsp. apulica*. The name x *Orchiserapias sonii* M. Hirth & H. Spaeth in Mitt. Arbeitskr. Heim. Orch. Baden-Wurttemberg. 23(3): 506 (1991) has also been published to account for the hybrid *Anacamptis* (*Orchis*) *morio* x *Serapias orientalis* subsp. *carica*, but this name has not been recombined here because the holotype was not designated with the original publication, making the name conuary to ICBN (1988) Art. 37.4. If this name can be typified, and subsp. *carica* and subsp. *apulica* continue to be accepted at subspecific rank, this hybrid taxon could be accepted as a nothosubspecies of x *Serapicamptis ducoroniae*.

x **Serapicamptis garbariorum** (Murr) J.M.H.Shaw comb. nov. Basionym: *Serapias* x *garbariorum* Murr in Deutsch. Bot. Monatsschr. 117 (1901); syn. x *Orchiserapias garbariorum* (Murr) E.G.Camus ex Asch. & Graebn. Syn. Mitteleur. Fl. 3: 792 (1907); x *Orchiserapias fontanae* E.G.Camus (1908); x *Orchiserapias leroyi* A.Camus & Semmen in E.G.Camus & A.Camus, Icon. Orch. Eur. 521 (1929), as *Anacamptis* (*Orchis*) *morio* x *Serapias vomeracea*.

x **Serapicamptis ligustica** (E.G.Camus) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias ligustica* E.G.Camus, Monogr. Orch. 65 (1908), as *Anacamptis* (*Orchis*) *papilionacea* x *Serapias vomeracea* subsp. *longipetala*.

x **Serapicamptis mutata** (E.G.Camus) J.M.H.Shaw comb. nov. Basionym : x *Orchiserapias mutata* E.G.Camus, Monogr. Orch. 64 (1908), as *Anacamptis* (*Orchis*) *palustris* x *Serapias neglecta*.

x**Serapicamptis myrtoa** (Kalop. & Aperghis) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias myrtoa* Kalop. & Aperghis in J. Eur. Orchideen, 28(4): 738 (1996 publ. 1997) as *Anacamptis* (*Orchis*) *papilionacea* x *Serapias bergonii* (*vomeracea* subsp. *laxiflora*).

x **Serapicamptis nelsoniana** (Bianco, D'Emerico, Medagli & Ruggiero) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias nelsoniana* Bianco, D'Emerico, Medagli & Ruggiero in Webbia, 44(2): 319 (1990), as *Anacamptis* (*Orchis*) *collina* x *Serapias parviflora*.

x **Serapicamptis pisanensis** (Godfery) J.M.H.Shaw comb. nov. Basionym: x *Orchiserapias pisanensis* Godfery in Orch. Rev. 1925, 33: 326 (1925); ibid. 34: 4, 6 (1926), as *Anacamptis* (*Orchis*) *laxiflora* x *Serapias neglecta*

x **Serapicamptis rousii** (Dupuy) J.M.H.Shaw comb. nov. Basionym: *Serapias* x. *rousii* D. Dupuy, Mem. bot. accomp. fl. stat. chemins de fer midi Gers: 256 (1868). Syn. x *Orchiserapias rousii* (Dupuy) H. Baumann & S. Kunkelein Mitt. Arbeitskr. Heim. Orch. Baden-Wurttemberg. 21(3): 840 (1989); x *Orchiserapias adulterina* E.G.Camus in Morot, Journ. de Bot. 6: 32 (1894); x *Orchiserapias purpurea* E.G.Camus, as *Anacamptis* (*Orchis*) *laxiflora* x *Serapias vomeracea*.

x **Serapicamptis tomasinii** (A.Kern.) J.M.H.Shaw comb. nov. Basionym: *Serapias* x *tommasinii* A.Kern. in Verh. Zool.-Bot. Ges. Wien, 15: 231 (1865). Syn. x *Orchiserapias tommasinii* (A.Kern.) E.G.Camus in Morot, Journ. de Bot. 6: 33 (1894), [as tommasini], as *Anacamptis* (*Orchis*) *coriophora* subsp. *fragrans* x *Serapias vomeracea*

x **Serapicamptis trilloba** (Viv.) J.M.H.Shaw comb. nov. Basionym: *Serapias trilloba* Viv. Fl. Ital. Fragm. Il. t. 12. f. 1 (19xx). Syn.x *Orchiserapias trilloba* (Viv.) Godfery in Orch. Rev. 33: 326 (1925); x *Orchiserapias trilloba* (Viv.) E.G.Camus, as *Anacamptis* (*Orchis*) *papilionacea* x *Serapias neglecta*.

There remains x *Orchiserapias dhionii* M.Ackermann & M.Ackermann in Mitt. Arbeitskr. Heim. Orch. Baden-Wurttemberg. 22(2): 332 (1990), as *Anacamptis* (*Orchis*) *syriaca* x *Serapias orientalis* to be dealt with, but this has not been recombined here because the location of the holotype was not given with the original description making it contrary to ICBN (1988) Art. 37.5.

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AOR 070

Australian Natives

In the early morning sunlight there is the overpowering sweet scent of *Dendrobium falcorostrum* mixed with the musky *D. speciosum*. Add a trace of the sweet vanilla of *D. tetragonum* and you know it is the main flowering time for native orchids. While all are not as wonderfully scented as these there is an unmistakable odour to a collection at this time of year. The range of flowers is pretty impressive too.

This is the main time for shows, so go out and see the newest seedlings in bloom. Have a look at the massive specimen plants. And grab a few bargains at the sales table. Don't forget though that you will have to supply water and growing space so don't get too carried away. Flasks of seedlings are a good way to get some of the newest breeding at a reasonable price.

If you are going to display your plants, be sure that the racemes are not tangled but displaying the individual flowers as best they can. It is a bit late to untangle them once the flowers open. Make a list of the plants you are benching. Note what section they are going in so they can be benched quickly and, more importantly, collected quickly when the show is over. Soak plants well before taking them to the show, but be sure they are well drained. Larger plants will cope without water for a couple of days in the average hall, but smaller ones will probably need water or they will take a couple of seasons to recover. Air conditioned shopping centres will also dehydrate plants. At least they will have other growers' plants to help maintain humidity. Pests are easily passed around so be sure your plants are clean before benching them.

Go through your collection looking to cull natives that aren't up to scratch. Has the plant produce poor blooms for a couple of years? Is it weak and sickly and slow to grow? If these are hybrids or selectively bred species they are probably not worth the effort of supplying water or the bench space. Plant them in the garden if you must or bin them. Don't pass them on to unsuspecting newcomers.

When the blooms fade it is time to get started on the repotting and general plant care before the new growths get started. Leave the stems from the flowers until they are dead and dry. Plants put a lot of resources into them and will reclaim this. Remove the flowers as they finish because they can host fungi.

Check to see if a plant needs to be repotted or just cleaned up. Is there room for another season's growth or are the pseudobulbs already distorting the pot? Is the media still lumpy allowing adequate air flow around the roots. Look carefully at any plants in media you haven't used before to see how it is going. Tip plants out and have a look at the roots. They should be strong and healthy and have filled the pot if they were given enough time last growing season. Just give the pot a squeeze to loosen the plants and support it with your hand. You might need to add a little extra media when it is returned to the pot. If there are dead and soggy roots you will need to look at the drainage of the media by adding larger material that doesn't break down quickly or hold excess water. Any natives growing in poorly draining media will need to be repotted. If the mix is dry and

the roots papery, add finer material, but check the plant is getting enough water first.

Be sure to take precautions against spreading viruses and diseases by leaving sickly plants until last in the day. Wash hands (try gloves) between plants and sterilise tools regularly. Any pots being reused should be thoroughly washed and sterilised with bleach or something with antiviral properties. Any plants known to be infected with a virus should be disposed of in the garbage. They are too much of a risk with aphids and other munching pests to spread diseases. Not worth the effort of isolating them.

When repotting native orchids that have a lot of dead roots you can afford to be a bit ruthless, particularly this early in the growing season. Tear away any dead growths and their roots. Don't just move the lot along to the next pot or the dead roots will begin to break down and rot. Certainly don't remove the pseudobulbs and leave the roots to harbour pests. After you have trimmed away unnecessary roots give the plant a good wash. A blast with a strong jet of water from a hose was always the best way to do this, but in light of water conservation maybe a bucket of water with some dilute fertiliser, and give the plant a good shake. You can also try a sharp tool, either a thin metal spike or even a sharpened chopstick, to comb out the roots so you can get a good look at what is there. Don't hesitate to shorten really long roots rather than twist them back up in the pot. The new growths will produce new roots as they mature.

This is also the best time to remount any plants as they will grow new roots to attach to the mount later. Consider the material you use as mounted plants are the quickest to dry out and need extra care. However, there are many native orchids that simply will not survive in a pot.

It would be nice to think everyone has the time to read this due to rain keeping them indoors – but outside there's flowers to enjoy and work to do.

Cattleyas

Winter is now here and if you live in the southern states and do not have a heated house your cattleyas will be in a near dormant stage. If you are lucky enough to have a heated house keep the night temperature at a minimum of ten degrees Celsius. If not, well, make sure the plants are kept in a sunny position out of the prevailing winds. If possible, that is if you have the room, hang your plants up high to get maximum light, which they like during the winter months.

If plants come into bloom during winter, try to keep the flowers dry. Depending on the weather conditions you will find watering every seven to ten days should suffice. The plants will require very little nutrients during this time. Once the weather starts to warm you can start to apply a small amount of nutrients. Parts of Queensland and the north coast of New South Wales will notice growth before the southern states. During this growth period I prefer to use an organic fertiliser. This helps to put friendly fungi back into the growing media. The ideal fertiliser would be MAJOR CARP. Use every fifteen to twentyone days at 3ml per litre of water. This is a very light rate, as one does not want to burn new roots. Water just before applying and water four or five days later. You could mix a little SUPERTHRIVE in with the CARP to get growth moving.

Always check for **mealy bug** and **scale**. If only a small infection spray with ANTI SCALE® or if you do not want to use a toxic compound, use ECO OIL® or a mixture of NATRASOAP® and SPRAYTECH OIL®. Follow directions on the container. It is **important to mix the NATRASOAP® and the oil together before mixing in the spray container.**

Cymbidiums

Now is definitely *Cymbidium* time. The king of flowers are now out in all their glory. At the orchid shows, the public look at them in all their glory, standing up straight and wonderful. Have you noticed how good the seedlings are these days? The hybridisers seem to be getting better and better at their job. Do yourself a favour and go out and buy yourself a few seedlings. One should do this at least four times a year! Remember, tomorrows champions will come from these little seedlings!

The most important job for the cymbidium grower now is to keep the spikes growing up nice and straight. Keep the snails away with a few snail pellets in each pot. Watch your watering. Keep plants just damp – not wet, during winter. Water only in the morning on sunny days. Fertilise weekly with PETERS EXCEL Hi K or HSO 12 or MERRI FERT is also ideal during the flowering months. Don't forget flowering plants need calcium. A monthly application of BIOMIN CALCIUM helps to give the flowers good texture and the racemes a bit of body. Agro Bests AGRODEX K35 (KDL) is a handy nutrient supplement if you find that your flowers lack depth of colour or size. It has 35% available potassium. Use as a foliar spray. DO NOT APPLY IN THE HEAT OF THE DAY. Early morning or late in the day are the best times. According to the manufacturer, their recommendation is four to 6 mls per litre of water. I feel two or three mls per litre of water every seven to ten days as a foliar application should be sufficient. NOTE: This product is now called AGRODEX K35. As stocks run out this will be its new name.

Watch for aphids. If present spray with CONFIDOR®. It seems to do a good job without marking flowers.

Now is the time to start thinking about mixing up your compost in readiness for the oncoming potting season. It is good to let the brew mature to get all the friendly fungi moving and to have the wood residual in the mix treated for nitrogen draw down, and most important to get rid of the nasty toxins that can lurk in the mix. As most people use bark as the main component of the mix, some added nitrogen will be extremely beneficial. Don't forget to check the pH of the mix. If too low don't forget to treat with lime and dolomite. For orchids to the pH use dolomite 2 parts to lime 1 part by weight (not volume). This gives you a 3:1 Ca, Mg ratio. One gram of this mix to 1 litre of mix, will raise the pH one half unit.

Some growers use the following formula to treat their bark. To each cubic metre of bark add the following:

2.5kg Urea;

1.0kg Superfine super phosphate;

0.5kg Iron sulphate.

Moisten heap after mixing. Turn heap over after three weeks – moisten. After six weeks check pH and adjust as calculated in the last paragraph.

Mix well, check pH next week. If OK it is ready to use. Some growers like to use a C.R.F. with a nine month release with an N-P-K of 18+2.6+10+T.E. (trace elements).

If possible MICROMAX® is a very good slow release trace element mix that is mixed in the potting media for use with cymbidiums. DO NOT USE ABOVE RECOMMENDED RATES AS READ ON CONTAINER (rate for potting mix i.e. for cymbidiums is 1kg per cubic metre of mix). Mix in just before using with the C.R.F.

Paphiopedilum

Routine culture during late winter is much the same as for the previous few months. Plants should be watered only when moderately dry and given some weak Aquasol immediately after every third or fourth watering. Watch the weather – the westerly winds which characterise this time of year can dry plants out quite quickly. Watering is best done during early morning.

Paphiopedilums benefit greatly from annual repotting. The slight shock of repotting encourages the growth of a new crop of roots which may otherwise not appear. The best time for repotting is from mid-September until late November.

The potting mix should be prepared a few weeks before use; this allows the bark to begin breaking down – a condition which your Paphs. will appreciate.

Whilst Paphs. can be grown successfully in a variety of materials, I have had best results using mixtures based on bark. A very good mixture consists of the following:

Pine bark (approx. 5-10mm) 80%

Charcoal (approx. 5-10mm) 20%

Add to this:

Sel Grit (granular limestone) or bird grade shell grit 2%

Hoof & Horn Meal (or, at a pinch, Blood & Bone) 1%

Wet the bark and charcoal with normal strength Aquasol, add the other ingredients and mix thoroughly. The mixture should be kept damp (use water for here on) until ready for use and must be used fairly wet. If you cannot store the mixture in an area free from earthworms and other vermin, it may be better stored in open plastic bags, If available, about 10% coarse river gravel can be added; the weight of this helps prevent the pots from tipping over.

If you have only a few plants, or all this sounds like too much trouble, your local orchid nursery may be able to supply a similar mixture. When buying potting mixtures always make sure they do contain plenty of nitrogenous fertiliser (have a good sniff) as bark alone contains very little that the plants can feed on.

Squat plastic pots are the most suitable for Paphiopedilums, particularly those with domed bottoms and plenty of drainage holes – not only for drainage but for aeration. A pot should be chosen which will comfortably hold the roots.

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CULTURAL NOTES

The plant should be potted firmly with its base about 12mm below the surface. If the plant is wobbly, stake it. Do not use Osmocote or the like on Paphiopedilums.

When dividing Paphiopedilums I always try to leave two flowered growths plus whatever newer growths are ahead of these. The older flowered growth can be "back cut" and left in the pot during January.

Newly potted plants are simply placed on the bench and watered and fertilised as before. The plants do not need to be widely spaced. Incidentally, open benching (say 3 x 1 Weldmesh) is far preferable and gives much better results than the solid benching once favoured.

Phalaenopsis

Watch the watering during the winter period. During this period of time, plants can dry out quickly and with a heater going the humidity will drop. On warm sunny days you could dampen the floor in the hothouse with water to help raise the humidity. You may have to water your plants every four to five days. One could drench the plants every five to six days and in between give the floor a drench and the plants a misting.

Keep the vents open on good sunny days. Air exchange is important. Fertilise weekly with a good general purpose fertiliser such as PETERS GENERAL PURPOSE. This will keep the flower spikes moving at this time of year. If you don't, you will get short spikes with a low flower count.

Watch for the BROAD MITE under the leaves. In the old days, one would use endosulfan with excellent results, but now it is unavailable to the hobbyist, (very toxic). Now, most growers of *Phalaenopsis* would be using KELTHANE® or ECO OIL®. So be aware, once spring arrives they will be around.

Vandaceous

Watering:- Water well in the mornings every 2 or 3 days. Avoid watering on cold or bleak days. Root systems should be kept moist and may require misting on dry, windy days particularly if hanging on wires only or potted in bare baskets or pots.

Light:- Strap leaf vandas and ascocendas need 50% shade. Outside vandas need very little cover at this time of year.

Fertiliser:- Fertilise once per fortnight during August using a low nitrogen fertiliser.

Increase to weekly during September, changing to a high nitrogen fertiliser and alternating over a 4 weekly period:-

Wk. 1. Inorganic high nitrogen - Campbells B, Aqua-feed or Aquasol.

Wk. 2. Foliar/Trace elements - Wuxall.

Wk. 3. Inorganic high nitrogen - as for week 1.

Wk. 4. Organic - Fish emulsion or Nitrosol.

Pest Control:- Continue to fungicide every 6 weeks. (e.g. Daconil, Mancozeb, Wettable Sulphur or Ridomil MZ WP).

Spray with Diazanon, Malathion or Pyrethrum if signs of insect damage or scale.

Watch for mites and treat as necessary.

If you use Wettable Sulphur as a fungiside it is also a good miticide.

Cymbidiums Australia

PRESENTED BY THE AUSTRALIAN CYMBIDIUM SOCIETY INC.

Editor's Report

As this edition reaches you we will be only a few weeks away from the 2005 National Cymbidium Show in Port Adelaide, South Australia. We hope that many of you reading this will be able to either see or participate in what promises to be an outstanding event. There are certainly few other opportunities to see the best and latest new cymbidiums available in one place. In fact, with the show season in full swing, it's an ideal opportunity to get out and see the amazing variety *Cymbidium* orchids have to offer wherever you are. Each state *Cymbidium* club is staging major annual shows and displays during August and September and, even if travel interstate is out of the question, a visit to your local shows will be well worthwhile. Along with cymbidiums on display, most shows also have sales areas usually attracting a cross section of Australia's best nurseries and *Cymbidium* hybridisers who offer exciting and beautiful new mericlones and seedlings, along with must-have favourites – an ideal opportunity to expand, update, or begin your *Cymbidium* collection.

Still on the subject of *Cymbidium* shows, this issue contains a preview and show schedule for this year's Australian Cymbidium Orchid Festival which is to be held in Ararat, Victoria – a unique event and venue in a beautiful and interesting part of rural Victoria some two hours from Melbourne.

Roger Herraman shares with us some of the many varieties and colour forms of the Australian native *Cymbidium canaliculatum* which are included in his own collection of this unique Australian species. Native orchid specialists report that many colour forms of *Cym. canaliculatum* exist in the wild and Roger brings us some of that variety, from albino forms to the darkest of the 'Sparkesii' varieties.

Graham Morris of Valley Orchids brings us an insight into the trials, tribulations and successes involved in relocating a major commercial nursery. The new Valley Orchids near McLaren Vale, south of Adelaide, is now in operation and is bigger and better than ever. Some 35-40 minutes south of the city, the new nursery is still within the metropolitan area but on the doorstep of one of South Australia's major wine regions – enough to make a visit to the new Valley Orchids worthwhile even without the thousands of cymbidiums!

Kevin Western brings us his experiences and impressions of his visit to the recent World Orchid Conference in Dijon, France, and his time spent with National Cymbidium Show naming-rights sponsor, Leon Van Rijn. Along with impressions and pictures from the conference show, Kevin describes Leon's nursery, the Dutch flower markets, and also includes pictures of Dutch cymbidiums and Australian cymbidiums being trialed and grown for the cut flower trade. All in all a most interesting article depicting some of the show's displays, including Leon's Fleurijn Orchids display and sales area.

Continuing on from the last issue, the Cymbidium Club of South Australia voices their club's tribute to one of their founding members and most active servants, Dean Roesler – and Phil Grech's short and heartfelt message from a mate.

Mary Roesler and the Roesler family include a thank you to all who knew Dean and who conveyed their tributes and respects on his passing.

To all of you, good health and good growing.

Noe and Rob Smith
Editors.

Editors

Noe Smith **Rob Smith**

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HOW TO JOIN A CYMBIDIUM CLUB IN YOUR STATE

CYMBIDIUM CLUB OF AUSTRALIA INC.

Meetings are held on the 2nd Thursday of each month (except December, January and February)
Meetings commence 8.00 p.m.
Venue: Lakemba Chapter Remembrance Hall, 220 Lakemba Street, Lakemba, Sydney, N.S.W.
For further details contact
Secretary, Peter Moore,
10 Stephanie Street,
Padstow, N.S.W. 2211
Phone: (02) 9721 0572
President, Geoff LeMarne,
Phone: (02) 9449 9648

CYMBIDIUM CLUB OF SOUTH AUSTRALIA INC.

Meetings are held on the 4th Wednesday of each month (except December and January)
Auditorium open from 7.00 p.m. —
Beginners' Group commences 7.20 p.m.
Main Meeting commences 8.00 p.m.
Venue: Burnside Community Centre, 401 Greenhill Road, Tusmore, Adelaide, S.A.
For further details contact
Secretary, Jeanne Hall,
18 Coorilla Avenue,
Glenelg North, S.A. 5045
Phone: (08) 8294 5562
President, Ray Brady,
Phone: (08) 8252 3812

THE CYMBIDIUM ORCHID CLUB OF WESTERN AUSTRALIA INC.

Meetings are held on the 3rd Monday of each month (except January and February)
Benching of plants commences 7.15 p.m.
Popular Vote commences 7.50 p.m.
Main Meeting commences 8.00 p.m.
Venue: Belmont Sports & Recreation Club, Abernethy Rd, Belmont, W.A.
For further details contact
Secretary, Dierdre Oliver,
35 Albert Road, Middle Swan, WA 6056
Phone: (08) 9274 2308
President, Helen Stretch
Phone: 0419 197 043

THE CYMBIDIUM ORCHID SOCIETY OF VICTORIA INC.

Meetings are held on 2nd Tuesday of each month (except January)
Popular Vote commences 7.50 p.m. —
Main Meeting commences 8.00 p.m.
Venue: Mt. Waverley Youth Centre, Millers Crescent, Mt. Waverley, Victoria.
For further details contact
Secretary, Kevin Brown,
4 Riviera Street, Mt Waverley, Victoria 3149
Phone: (03) 9808 1224
President, Peter Sunderland,
Phone: (03) 5998 2535

Dean Roesler

Editor's note: Mary Roesler requested that the following statement of thanks be included in Cymbidiums Australia as a way of contacting all those who communicated their sympathy and respect following Dean's passing. With so many messages from both here and overseas, many without return addresses or contact information, Mary and family sincerely hope that their thanks expressed through these pages will reach all those who communicated their personal feelings.

Dean's family wishes to express their sincere thanks to everyone for their kind messages of sympathy. It is comforting to know that Dean touched so many people in such a positive way. Thank you.

The Roesler family.

Dean Roesler OAM

Life member – Cymbidium Club of South Australia Inc.

It was with great regret that I advised CCSA members of the passing of Dean on the 25th of April 2005 after a long ordeal with cancer. Dean left his wife Mary, five children and their partners and ten grandchildren, all of whom will miss Dean greatly.

Dean battled cancer for many years with courage and a positive attitude, continuing to work in his laboratory until the later months of his illness. He was also a prolific hybridiser of cymbidiums and many of his crossings have yet to flower, so perhaps the best of Dean's hybrids are yet to come? Dean will also be remembered for his artistic displays in the various shows staged by all clubs in which he held membership – the Cymbidium Club of South Australia, the Gawler & Districts Orchid Club – and the national *Cymbidium* shows presented by the Australian Cymbidium Society. He was a leader in the design of orchid club magazines, beginning with the Gawler & Districts Orchid Club, followed by the CCSA's Cymbidium News, and progressing to Editor of Cymbidiums Australia, the ACS's national publication incorporated into the Australian Orchid Review. Dean was one of the founding members of the Cymbidium Club of South Australia Inc. and held the positions of President, Vice President, Editor, Committee Member, and Judge, and he served in some of these positions on several occasions.

As a personal friend to both myself and many others Dean will be sadly missed.

John Longbottom
Editor, CCSA.

In memory of my dear departed mate Dean Roesler

You have now climbed that stairway to Cymbidium heaven that we built together at the 2002 National Cymbidium Show in South Australia. May you look down on us until, in time, we join you there. The Cymbidium world has lost a man who not only did so much for the promotion of cymbidiums, but also a man who was loving, generous, kind, an exceptional family man, and a great friend. My condolences to Mary and all the family.

Phil Grech.

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2005 Australian Cymbidium Orchid Festival

Ararat Performing Arts Centre (Old Town Hall) Barkly Street, Ararat, Victoria.

The 2005 Australian Cymbidium Orchid Festival is certainly the place to be this September. Staged in the historic rural city of Ararat, situated in the gold fields, farming and wine producing areas only some two hours from Melbourne and close to the Grampains National Park, it is one of the most beautiful areas of Victoria. The festival and the area's attractions provide an ideal weekend break or day trip for *Cymbidium* enthusiasts and lovers of orchids and flowers in general. Presented by the Cymbidium Orchid Society of Victoria and held over the weekend of the 10th and 11th of September, the Australian Cymbidium Orchid Festival showcases the best cymbidiums available – prepared and grown by many of Victoria's, and Australia's, most successful growers, hybridisers and nurseries. Select cymbidiums will be on sale during the weekend for those who may wish to add to their collections or, perhaps, start off with their first *Cymbidium* orchids. The work and planning which goes into exhibitor's displays is a major attraction of the festival, alongside the *Cymbidium* flowers themselves. Many exhibitors feature artistic themes in their displays, providing an additional visual dimension to the show. A comprehensive prize schedule is available for the benefit of those exhibiting, with champion classes for all *Cymbidium* flower sizes, specimen plants, seedlings, and a variety of display sizes.

Set up of displays, plant registration and judging take place on Friday the 9th of September and the venue doors will be open from 9am. The show is open to the public on Saturday the 10th of September from 10am to 5pm, and on Sunday the 11th of September from 10am to 4pm.

For information about registrations and display bookings please contact COSV Secretary, Kevin Brown on (03) 9808 1224. A show dinner will be held on the evening of Saturday the 10th of September and bookings may be made with COSV Treasurer, Henk Morren on (03) 9763 7278.

The Cymbidium Orchid Society of Victoria and Ararat Rural City welcomes all lovers of beautiful flowers to join them for a special weekend in September. ■

Australian Cymbidium Orchid Festival

Presented By Ararat Rural City
Hosted by Cymbidium Orchid Society of Victoria

To Be Held:
Saturday 10th September 2004 – 10am to 5pm.
Sunday 11th September 2004 – 10am to 4pm

Venue: *Ararat Performing Arts Centre Town Hall – Barkly St. Ararat Victoria*

Show Schedule

Champion Large Flower	$150 + Sash	Ararat Rural City (VIC)
Champion Small Standard	$150 + Sash	Ararat Rural City (VIC)
Champion Intermediate	$150 + Sash	Ararat Rural City (VIC)
Champion Miniature	$150 + Sash	Sims Orchids (SA)
Champion Specimen Large Flower	$150 + Sash	Kimberley Orchids (VIC)
Champion Specimen Small Standard	$150 + Sash	David Keanelly Orchids (VIC)
Champion Specimen Intermediate	$150 + Sash	Robson Concreting (VIC)
Champion Specimen Miniature	$150 + Sash	Aussie Plant Labels (VIC)
Champion Novelty	$150 + Sash	Lifestyle Botanics (SA)
Champion Cut Stem	$150 + Sash	TP Casting (VIC)
Champion Seedling Large Flower	$150 + Sash	Ezi-Gro Orchids (WA)
Champion Seedling Small Standard	$150 + Sash	Aranen Orchids (VIC)
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Large Display incorporating a theme/artistic:

Sponsored By	Duralite Horticultural Supplies	Gold Sash	$150
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Large Display:

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Medium Display incorporating a theme/artistic:

Sponsored By	Orchids For You (VIC)	Gold Sash	$150
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Sponsored By	Ararat RSL Club	Gold Sash	$150
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Small Display incorporating a theme/artistic (2mx2m and under):

Sponsored By	Duralite Horticultural Supplies	Gold Sash	$100
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MODERN - ELEGANT - STYLISH

AOR 010

Valley Orchids

Text and Photography by Graham Morris

On the move

Valley Orchids have operated from the old well known site at Morphett Vale, South Australia, for 40 years. In the early days the area was quite isolated but just 30 minutes from Adelaide. Unfortunately the urban sprawl has succeeded in consuming the area with houses now surrounding the site causing many problems. The real estate boom of recent years put further pressure on the operation with increased operating costs due to increased property values. Many approaches were made to develop the land (three and a half acres), and in February 2004 we signed a contract to sell the land and establish a new bigger and better nursery.

Imagine the challenge

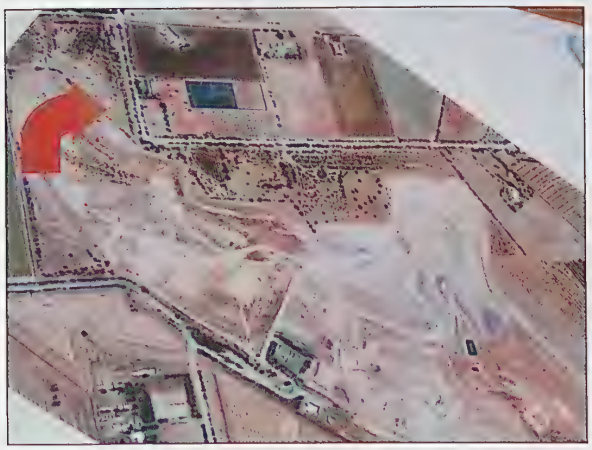
How does one go about finding a new site, building the nursery, and moving huge numbers of plants? Sounds easy doesn't it? It is now late June 2005 and we are operating from the new nursery and I had expected to have all the building well completed by now. It isn't. I will elaborate on that later. What we do have is a new and better nursery, approximately 50% bigger than our old one. It is in a fabulous position, approximately 3 kilometres on the Adelaide side of McLaren Vale (a very famous wine region). It is approximately 35 kilometres south of Adelaide and just 35 or 40 minutes by the Southern expressway. We do have all the plants at the new site – all 200,000 of them.

I will now try to describe to you how we went about the relocation, including lots of good outcomes, but also lots of frustrations. Finding a new site was a huge challenge. We wanted it to be bigger than the old site and relatively close to the city so that staff and visitors did not have to travel long distances. Additionally, freight costs threatened to rise if we were to relocate outside the metropolitan zone. Initially we found a great site quite close to the old nursery but existing council zoning meant that getting approval to operate a nursery would have been very lengthy, messy, expensive and risky. After much searching we found a great 4 hectare site (10 acres) with an established, lovely, modern house on it. The land appeared perfect to set up the shade house having a slight slope to the north and protected on 3 sides by slight ridges (high wind area). We moved into the property in early August 2004 and started construction of the shade house soon after.

The time between signing the contract to sell and actually moving in was used to design and plan the new nursery. I wanted a shade house structure similar to the existing one at Morphett Vale. That structure was essentially a series of poles supporting cables to which the shade cloth was fixed. In strong winds it flapped about a bit so I designed the new structure with a lot more cables arranged in a crossover truss arrangement to rigidly support the poles. Additionally, we started accumulating equipment necessary to get the building done. We purchased a small truck to transport the plants and designed the shade house to allow access for the truck. We purchased a small tractor complete with a front end loader to be used to spread the many hundreds of tonnes of gravel required for the floor. We also recruited staff to assist in the building stage.

We experienced huge and unexpected problems just getting approval to operate the nursery and even more and bigger problems in getting approval to build the shade house. Planning approval was required from Council to operate a business. Their development plan stated that a wholesale nursery was a permitted use in the zone and approval should have been easy and quick. However, when we informed them that we intended to build a big shade house problems began. They categorized the shade house as a building. Under permitted use approval could have been given within a couple of weeks. With the big shade house issue the whole process was made more difficult but still should have taken no more than 6 weeks – it took over 9 weeks to get planning approval.

Building approval (for a shade house) was even worse. We had to get a Consulting Engineer to certify that the building was safe. Unfortunately, shade houses do not get built very often. The building code doesn't cater for such a building. We ended up with huge concrete footings and huge support cables and small support spans. The old shade house at Morphett Vale had much smaller footings, big spans, and small and few support cables and had survived for over 40 years. It would not have been approved under current design requirements. Even sillier is that because it is a building fire safety regulations were enforced (in case a fire erupted). We were required to have huge amounts of stored water, complete with fire fighting pumps. Additionally, fire extinguishers and fire hose reels were required in many positions. We managed to convince the authorities that a fire was impossible and that fire equipment was unnecessary. However, we are still



Arial photo

Framework

Inside shade house

New entry and shade house

required to provide emergency fire escape doors.

We eventually started building the shade house in mid-August. To date we have all the frame and support cables in place and shade cloth on about 70% of the house. We started moving the plants in November while the house was still being built. By the end of February 2005 we had all the plants moved, helped in a huge way by some very generous volunteers from several local orchid clubs (thank you again to all the helpers).

The new shade house consists of:

- 2 kilometres of 2" nominal bore water pipe support posts;
- 9 kilometres of multi-strand support cables;
- 8 kilometres of high tensile wire to support the shade cloth;
- 12,000 square metres of shade cloth;
- 11,000 square metres of plastic sheeting for the floor;
- 500 tonnes of bluestone gravel to cover the floor;
- thousands of turnbuckles and cable clamps;
- approximately 150,000 shade cloth support clips;
- approximately 200,000 plants in 80,000 pots; and,
- lots of hard work (and frustration).

The area of the shade house is approximately 11,000 square metres (about the size of an Australian Rules football field). The previous nursery was 7,000 square metres. We are in the process of constructing a new building to house our tissue culture workshop and flask growing area. It will also contain an office and reception/staff lunch room. We have already built a temporary flowering/packing area and have plans for a permanent building soon. We have been severely hampered by delays in payment for the old property. It should have been finalized last November but still has not happened.

During all this chaos we have still managed to do all the things we did at the old site. We are always planting plants out from flask, potting them on, and preparing them for sale. At the moment we have more plants in the nursery than we have ever had before. Over 70,000 have been planted out of community pots into 150mm pots, and even more have been potted on from 150 to 175mm pots in preparation for flowering next season. At the moment we have approximately 200,000 plants in 120,000 pots. We are just starting to flower many new varieties, mostly from our own breeding and development program. We believe these new varieties are superior to many older varieties and they are already in strong demand by progressive orchid growers, both overseas and within Australia. We expect to at least double our production within the next two years. We have already greatly increased exports with the signing of a huge contract to supply exclusive new varieties to the Asian market. We hope to be able to involve many local growers in supplying new varieties on an ongoing basis.

The last 18 months have been very trying and extremely busy. We still have a lot of work to do to finish the moving process. The wet weather, when it finally came, presented us with new problems, namely the need to provide more all weather areas suitable for loading our transport contractors (there was a lot of mud, bogged vehicles, and frustration).

Visitors to the new nursery are amazed at the size of it, and what we have achieved in 9 months since construction began. By Christmas 2005 we hope to have it virtually complete and maybe we can relax a little and enjoy the flowers.

Graham Morris
Valley Orchids
PO Box 143
McLaren Vale, SA 5171.

Shade house and igloo

Shade house from house

Fleurijn Orchids-Holland and the 2005 World Orchid Conference

Text by Kevin Western – Western Orchids/Laboratories
Photography by Kevin Western, Peter McCauley and Imre Takacs

Back in August or September 2004 I was anguishing as to whether or not to attend the World Orchid Conference at Dijon, France, in March 2005. On the basis that it should be possible to cover some or all of the costs of the trip by taking flasks to sell, it was decided that I would go. Peter McCauley who cooperates with me particularly in the area of tissue culture of Australian native terrestrial orchids elected to go also.

During past contact with Leon van Rijn he had expressed an interest in trying Disa orchids under his conditions. They did not grow well in Holland but I offered to call in and see him if ever the opportunity should arise to see if there might be some way to grow them under his conditions. Thus, since the WOC/Florissimo conference and show was in France, not too far from Holland once one has travelled that far, I contacted Leon to advise that I planned to call in and see him on the way. He indicated that he was contemplating attending the WOC too and that he would have a sales area. We found much of the initial literature regarding the WOC/Florissimo conference and show in Dijon was somewhat ambiguous so Leon offered to sort it out on behalf of both of us.

Ultimately it was arranged that I would send the flasks to Leon seven to ten days prior to our own scheduled arrival in Holland and we would then arrive at Amsterdam Airport on Sunday March 6th where Leon generously elected to meet us. The flight to Holland from Heathrow Airport in the UK was quite an eye-opener. Apparently the recent cold snap that Europe and Holland had just experienced before our arrival was quite unusual and unseasonal leaving deep snow even down as far as the high-tide mark on the beach. As we flew low on our approach to Amsterdam, the countryside, in small, fenced paddock format, was as flat as a sheet of glass and looked like a series of billiard tables set side by side. Like typical Aussies, we turned up in our short-sleeved cotton summer shirts and jeans (apparently David Wain went one better arriving some weeks earlier in a tee shirt, shorts and thongs at –10°C . . . good one David). It seems appropriate to say that –8°C in Europe without any wind blowing is not a patch on +2°C at home . . . so you all have something to live up to!

Since upon our arrival we were unaffected by jet-lag, Leon decided we should visit his and Willem Evertse's tissue Culture Laboratory since it was conveniently nearby. Willem is a very knowledgeable, practical and likeable fellow who was most uncommonly willing to share his knowledge and experience with the strangers from 'Down Under'. After the Laboratory visit we drove through snow-covered countryside and suburbs to Pijnacker where Leon's glass houses and residence are situated. Though I had seen video and still pictures of Leon's set up, it was striking to see its physical size and the spectacle that it is. At that point in time, Leon and his wife had just some three weeks earlier moved into their brand new house with their new baby son. I think we were rather privileged to be able to share it with them during our stay.

In a further bid to avoid the legendary jet lag, Peter and I spent the remainder of the day checking out the glass house and its con-

Fleurijn Orchids-Holland's display

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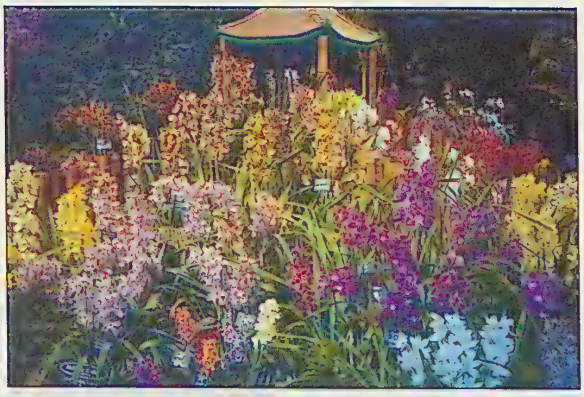
tents. In effect, one very large glass house is divided into several separate working units. The entry area houses a large computer-controlled, gas fired, heating system, staff room, storage, and deflask/repot area. Further in there are computer controlled fertilizing systems, cut flower packing area and seedling/clones nursery. The next step in comprises the growing area for juvenile and semi-mature seedlings and clones that are frequently fertilized and kept at 24°C to maximize growth. It is quite a sight to see about an acre of juvenile cymbidiums on benches.

The growing/production area proper is comprised of three roughly equal but separate areas maintained at 3 different temperatures. Plants maintained in the warmest section come into flower first while the cooler and cold sections are deliberately kept many weeks later so that a span of production time can be achieved with a given range of clones to work with. Flowers on plants in the warmest section had largely been cut and sold as had the earliest blooming clones in the cooler area while the same clones in the cold area were still in tight bud.

As well as his regular producing clones, Leon has quite a number of newer clones under evaluation. It is interesting to see, for example, that *Cym.* Kurralta Park 'Tennyson', which makes quite good, strong spikes and produces well for both cut flower and pot plant in South Australia and Victoria, produces a rather weak spike, still with great colour and many flowers per spike, under the intense glass house growing conditions for the Dutch growers while 'Luminesce', which tends to mark rather badly in our conditions, reliably produces a spectacular, unblemished flower in Leon's conditions. Interestingly, some of the older clones that we see do quite well in our conditions can do amazingly well in Leon's conditions. For example, while it does quite well for us, *Cym.* Valley Vampire 'Blood' is just a spectacular, unstoppable flowering machine in Holland with large numbers of very tall spikes carrying heaps of well-spaced, intensely red flowers. *Cym.* Valley Zenith 'Çoncorde' was another well-known clone that is proving to be quite a spectacle in Holland. Plants are grown in the same pot for up to 15 years and are then discarded and replaced by new more vigorous and manageable plants of the same clone. After perving on his plants and growing set up with Peter McCauley taking numerous shots with his new digital camera, our minds were well and truly abuzz with new ideas and understanding regarding the *Cymbidium* cut flower and pot plant industry.

The next two days were spent with Leon increasing our awareness of his operation and hearing a real businessman at work. Virtually nothing is left just to chance. Also we were involved in loading and readying some of the orchid products that were to accompany us to Dijon for sale at the WOC. There were specimen plants in full bloom to clean up and make presentable as display plants at the WOC. Normally the appearance of plants is of no consequence to Leon as it is only the blooms that ever leave the premises so they required a little attention but they came up shining. Leon's brother Wim and his father and staff were very busy cutting blooms and preparing boxes of cut flowers for sale in Dijon. In due time all was ready and loaded into a truck. I still can't believe how much material fitted into that one truck!

At about 12.15am on Wednesday 16/5/05 Willem, Peter and I left Leon's heading for France and Dijon and what was going to turn out to be one of 'the experiences of a lifetime'. We had not been driving for long when Willem announced that we were already in Belgium. Sometime later we were in Luxembourg and then it was France – no border checks, no passports required, no change of currency – this must boost tourism and trade in the region. We arrived in Dijon at about 9.00am on the Thursday where good road signage quickly led us to the Florissimo/WOC site. Upon arrival we found what was to become the display area in its most raw beginnings – just short of chaos- with officials,



McBean's display

One of many trolleys of orchids that went with us on the first load to Dijon

Cymbidium clones a few month's old in CocoPeat at Leon's nursery

Cym. Julie Hawkes 'Sim' in Leon's collection

Cym. Memoria Amelia Earhardt

Cym. Vangard ready for trimming and boxing

Aussie reprobates returning from Dijon to Holland

Food stalls at the Dijon World Orchid Conference

Flora Holland plant and flower market and surrounding glass houses

Win van Rijn and Kevin Western at the Fleurijn Orchids-Holland stand

About an eighth of an acre of *Cym.* Valley Vampire 'Blood'

staff, and exhibitors milling about in the near freezing conditions. I was wondering how the tropical orchids would survive for their owners but once all was set up the temperature was maintained at safe levels.

Florissimo is held annually, usually in the form of a flower and garden show. This year it was definitely the "Year of the Orchid" – a conservative estimate would be that 90% + of the display was orchids with about 7% bromeliads and 3% miscellaneous plants. The display area was quite massive – certainly larger than anything I have seen for its type. There were displays by orchid societies, businesses and individuals that included a very wide range of genera and included a significant proportion of species. There were a number of fine exhibits containing a significant proportion of quite fine *Cymbidium* seedlings and clones. The Eric Young Foundation, McBeans, Post, etcetera, and of course the display Leon had organized for us to set up. I was particularly struck by a display that only included few cymbidiums but which had a particularly fine specimen of *Cym.* Memoria Amelia Earhardt "105". The grand champion was a yellow-flowered species Calanthe. It was indisputably a fine specimen and the continent has a passion for species. Here in Australia I feel it would not have even made it to 'runner-up' status since we seem to be more likely to award a fine hybrid than a species.

The Fleurijn Orchids-Holland (Leon's) display site was in a prime location adjacent to the Eric Young Foundation and near to the McBean's display. Our set up was simple but eye-catching on a sloping site. Several of his finest and cleanest pots of cut flower specimens were placed in painted pieces of PVC storm water piping cut to various lengths so we could grade plants from high at the rear to ground level at the front of the display. The pipe diameter fortunately just snugly held his standard large specimen pots. Another cunning display of cut flower blooms was achieved by cutting a thin diameter PVC pipe into three different lengths. The tallest lengths were then joined into PVC T-sections and these were then connected to each other with about 22.5° elbows to make a continuous octagonal loop that would hold water and become the centre-piece of the display. The next tallest lengths were similarly interconnected and glued to form a larger 'diameter' unit and the lowest similarly interconnected to form the largest diameter unit. The systems held water as they were supposed to and once filled with water containing some cut flower sustaining mixture the cut flowers were added to make quite a fine overall display which even featured in the local Dijon news media.

Once the display had been completed we proceeded to set up the sales area. Having travelled from Holland to France with just enough room in the truck for ourselves and the fundamental essentials we arrived at Dijon with rather a Spartan setup which comprised the benches provided by Florissimo, plus what we could make from the essentials that came to Dijon with us in the truck. The benches formed our outer perimeter and were soon covered with opened boxes of cut flowers and potted, flowering cymbidiums, dendrobiums, and with flasks. Some of the now empty trolleys were used as utility bench area and to display cut flowers to approaching visitors/customers above head-height. The remaining fully laden trolleys remained at the rear ready for sale and making quite a spectacle en-masse with a solid wall of plants in flower and bud. Excess boxes of cut flowers were stored on the floor below the benches.

It was great to be able to enter the display/sales areas an hour before the public to be able to conveniently and fully appreciate the spectacle as the attendance was so great other times that one could not really see well. By about 10.00am the crowds began to check out the sales and eating areas and we became busy to absolutely frantic with some days going from 09.00am to 11.00pm. The products were in high demand and we all became quite proficient in 'Shop French', occasionally needing to excuse ourselves as 'Non parlez Francaise – Australien!' when it became necessary. Quite fortunately there always seemed to be some kind soul in the crowd who would kindly translate English to French and vice versa. Leon's products were extremely popular with the French population and the flasks sold just well enough. Anyway the tucker was great and the beer was free and it really was a great time and, for Peter and me, it was the one of the experiences of a lifetime. For the first three days, just Peter McCauley, Willem and I ran the sales area. On Sunday we were

A single flower of *Cym.* Valley Vampire 'Blood'

joined by Leon and another of his staff. Willem took the truck back for more supplies. The evening meals in particular were something else – from eating in at the Dijon conference food sales areas or eating out at some of the nearby French restaurants, the cuisine was absolutely excellent. We were extremely grateful to Leon for his extreme generosity.

On Tuesday March 15th, the rest of the Aussie contingent comprising Moss and Rosemary Bray, Geoff and Lucy Spear, David and Loraine Keanelly, Imre Takacs, Kevin Butler and his manager Rosa, and Jackie and Jeff Stocker arrived in Dijon. They met us at the sales area after visiting the show. David Keanelly, Ray Clement and Geoff Spear soon showed what 'naturals' they were by joining us in the sales area after a rudimentary course in 'Shop French'. Wisely though, they soon left us to it. On Wednesday 16th, Leon had organized a chartered bus to arrive to take himself, Peter and me, plus the Aussie contingent, back to Holland. In typical fashion he had shrewdly organised for it to be stripped of all but essential seats so it could bring another load of sales products plus his brother Wim and staff to stay and work in the sales area until the end of the WOC.

We left Dijon on the Wednesday and headed back to Holland. Most of the Aussies stayed in Delft not far from Leon's home while Peter and I returned to Pijnacker with Leon. On the Thursday Leon organized another bus to bring the Aussie contingent back to his glasshouse and residence at Pijnacker where we again all had a good look over the facility and plants both working and under evaluation and made notes or took video footage or pictures and then lounged around his enclosed 'tropical pool' area. On the Friday we were treated to a visit to one of the amazingly well organized flower and plant markets that Holland is renowned for. We were amazed by the enormous scale of the operation, its efficiency and the level of computerization with goods on carts being towed along by computerized track system. Everything was happening apace – far more than any of us could completely comprehend. After the flower market visit, we were taken to see an amazing, almost completely automated Kalanchoe nursery that routinely sold 100,000 pots of plants in prime condition every week. The scale of Dutch primary industry just puts us to shame. I can't help but think that Australians should start to consider intensive cultivation lines too – it certainly beats trying to farm in a country where unpredictable droughts and so on are 'normal'.

On the Saturday Leon again organized a bus to transport the Aussie contingent to some typical Netherlands tourist sites such as their famous windmills and a type of pioneer village and some of their (rather busy) seaside resort areas. Another great day was had by all. Most of the Aussie contingent headed out for other destinations such as Thailand, etcetera, on the Sunday. My own Holland/WOC tour ended on the Tuesday when Leon kindly took Peter and me to the airport for our trip back home.

Another view of the Fleurijn Orchids-Holland display at the WOC

The whole trip had been a most memorable event and a quantum leap learning experience for us all even including Leon and Willem. To see the scale and level of professionalism of Leon's and Willem's operations and the other profound situations we witnessed or experienced was a once in a lifetime event that I would love to be able to repeat some time. ■

Kevin Western
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Cymbidium canaliculatum

Text and photography by Roger Herraman

Cym. canaliculatum is one of only three species within the genus that are endemic to Australia. With its precisely arranged racemes of small flowers in a variety of colours and patterns, it has always held a special place of interest for me in 35 years of orchid growing. It has its own unique growing requirements which, in itself, can present a challenge (especially when grown well away from its natural habitat)

Over the years I have been able to build up a reasonable collection of plants which demonstrate the variability within the species. The strikingly different clones of the northern Australia 'Sparkesii' form could easily make a wonderful collection on its own. Southern forms vary in colour from white through to yellow and the relatively common green-brown, all with differing degrees of markings and colour intensity. There is also an 'alba' form with apple-green petals and sepals and a pure white lip.

Being a predominantly inland species, it requires a much drier cultural environment than either *Cym. suave* or *Cym. madidum*. I have seen it growing as far south as the Ardlethan area in southern New South Wales with reported sightings even further south around Hay. Its province stretches from this general area up through central and northern NSW into Queensland to Cape York Peninsula, then across the 'Gulf' country into Arnhem Land and as far west as the Derby area in Western Australia. In eastern Australia it is almost always located on the drier western flank of the Great Dividing Ranges. In far north Queensland it may be found much closer to the coast. This environment gives an immediate indication to its cultural needs. While its southern occurrences would endure cold winters and hot dry summers, the northern forms thrive under warmer conditions overall but with pronounced wet and dry seasons.

My plants are housed in a pitch-roofed polycarbonate enclosed structure with no shadecloth canopy. The manufacturer claims a 55% light transmission which should equate to 45% shade. This seems

The alba from of *Cym. canaliculatum* with its pale green segments and white lips makes a rare and beautiful feature amongst the other colour forms.

A green and brown speckled for of *Cym. canaliculatum* from Amby in Queensland, approximately 500kms west of Brisbane on the Warrego Highway.

This golden yellow form of *Cym. canaliculatum* is spotted over all the segments with fine red/brown markings.

This gold from of *Cym. canaliculatum* with red/brown markings comes from Bingara in New South Wales. Bingara is situated approximately 150kms north of Tamworth.

The darker varieties of *Cym. canaliculatum* referred to as 'Sparkesii' come in colours ranging from tan/brown through to intense dark red/brown.

Very beautiful freckled markings make this a very attractive form of Cym *canaliculatum*.

Standard Cymbidium Seedlings in Community Pots

Minimum of 5 plants per cross

$3.30 each plant – A size

Cym. Jason Deans 'Shattered'

A. *Cym.* Beau Guest 'Daffodil' x Trinity Hall 'All Smiles' – yellow

B. *Cym.* Beau Guest 'Gold Batts' x Cora Paddison 'Bright Spark' – yellow/brown/orange

C. *Cym.* (Blush of Spring x Winter Showers) 'Lee' x Via Del Playa 'The Globe' – pink

D. *Cym.* Darch Goshawk 'Green Grub' x Valley Zenith 'Glen Avon' – green

E. *Cym.* Doctor Stanley Parkinson 'Yvette' x Kirby Lesh 'Fay' HCC/ACS – pink

F. *Cym.* Golden Celebration 'Pink Tinges' x Hazel Tyers 'Santa Maria' – pink

G. *Cym.* Golden Celebration 'Pink Tinges' x Jason Deans 'Shattered' – pink spots

H. *Cym.* Golden Celebration 'Pink Tinges' x Red Beauty 'Netty 4N' – pink

I. *Cym.* Golden Celebration 'Pink Tinges' x Via Del Playa 'The Globe' – pink

J. *Cym.* James Toya 'Red Devil' x Top Gun 'Red Giant' – red

K. *Cym.* John Jansma 'Brown Beauty' x Cora Paddison 'Bright Spark' – orange/brown

L. *Cym.* (John Jansma x Golden Anniversary) 'Green Meadows' x Alex Szabo 'Airport West' – green

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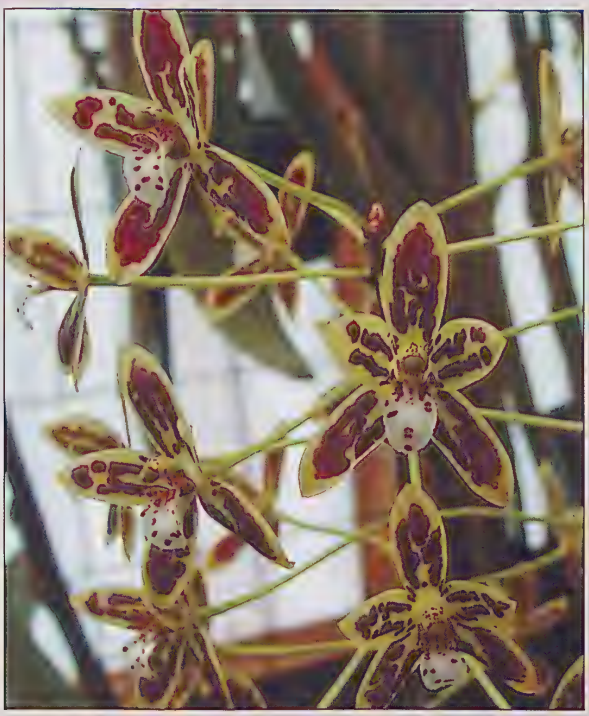
to suit the plants well as I have not experienced any burning on those hanging with leaves less than 30cm from the roof even in extreme heatwave conditions (>40°C). These temperatures are not uncommon in Adelaide over several days at a time during summer with associated very low humidity of 10 to 15%. The majority of plants are suspended more than 2 metres above the ground with only the larger pots and striking backbulbs benched about 90 cm high. (I don't like bending !). Watering is only done weekly during the growing season (November to late April in Adelaide) and plants are fertilized fortnightly during this period with a dilute variety of mainly organic low nitrogen fertilizers.

A green from of *Cym. canaliculatum* that has solid brown markings.



'Lemon Chocolate' as its varietal name indicates is a most impressive form of *Cym. canaliculatum* with its yellow segments dramatically marked with chocolate-brown.

This brown speckled green form was collected at Tenderfield in northern New South Wales, which is approximately 200kms west of Ballina near Byron Bay.

The slightly alkaline mains water in Adelaide seems to suit them as I do not lime the plants as many growers in the eastern states must. I occasionally flush the collection with rainwater over summer to reduce the build-up of unwanted salts in the pots. During the period from Easter to mid-October water is withheld almost completely apart from perhaps an occasional light splash if we are lucky enough to have a mild winter. Temperatures inside the growing house range from about 3°C on cold winter nights to over 45°C on those hot summer days. I do not grow any other genera in

Beautiful even markings make this a most desirable mottled form of *Cym. canaliculatum.*

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A very lovely yellow/green form of *Cym. canaliculatum* from Rubyvale, approximately 300kms west of Rockhampton in Queensland, an area that is also renowned for its sapphire deposits.

A darker form of *Cym. canaliculatum* with its yellow and red red/brown mottling confined to the petals and around the base of the lip. It comes from Morven which is approximately 600kms west of Brisbane on the Warrego Highway

the area set aside for *Cym. canaliculatum*. This allows me to care for them separately and not have to worry about other plants receiving too little water and humidity. On extremely hot days I occasionally give the plants a mist, mainly to lower the inside temperature. Louvre windows on the northern and western sides of the house provide ample air movement with hot air escaping through the ridge cap. The house is not sealed in any way from the extremes of weather. Potting mix consists of medium grade pine bark with a few pieces of large grade in the bottom of the pot, river gravel and a little Maidenwell to help conserve moisture. I occasionally add a small quantity of ti-tree or eucalypt mulch to the mix if it is available at the time of preparing my mix. I try to use deep pots whenever possible. Potting is an infrequent chore for *Cym. canaliculatum*, with most plants being repotted or potted on every three or four years. They do not seem to enjoy being divided too often as you sometimes may have to wait two to three years before they bloom again.

Flowering time in Adelaide generally begins in late October with the southern forms opening first and extends well into the new year with some of the hybrids like *Cym.* Little Black Sambo and *Cym.* Kuranda. The darker 'Sparkesii' forms are the latest to open around mid to late November. I find the hybrids to be very long lasting in my growing area, often staying in good condition for more than two months. I do not know of many orchids that possess this longevity of blooms at this time of the year when they are subjected to such high temperatures.

I attempted some pollinations during the last flowering season to see whether I could, perhaps, eventually produce some improvements or greater variety of

colour and markings within the species. I tried about 20 reverse crosses using a variety of clones. So far about 30 pods are still swelling approximately ten weeks after pollination.

There are not many hybrids around using *Cym. canaliculatum* but the grexes of *Cym.* Little Black Sambo (*canaliculatum* x *madidum*), *Cym.* Pied Piper (devonianum x *canaliculatum*) and *Cym.* Brown Beauty (*canaliculatum* x *pumilum*) are well worth having in your collection. I have three distinctly different clones of *Cym.* Little Black Sambo. I imagine the differences in flower colour has come from the various clones of *Cym. canaliculatum* used.

Another interesting hybrid is *Cym.* Australian Midnight (*atropurpureum* x *canaliculatum*) with its very dark flowers and late flowering (December/January in Adelaide). When crossed back to *Cym. canaliculatum* (= Son of Midnight) the resultant flowers are much improved in shape and just as dark. These hybrids are grown in the same area as the species and treated similarly.

Cym. James Webeck (*canaliculatum* x *suave*) is a hybrid I have never been able to obtain so I thought I would try to make it myself. I had previously been told by a number of respected hybridists and experienced growers that *Cym. canaliculatum* is a notoriously poor pod

Cym. Little Black Sambo 'Blacky' (*canaliculatum* x *madidum*). Two of the Australian *Cymbidium* species are combined here and have produced a predictable result – long pendulous spikes with flowers similar in appearance to both parents. One would assume that *Cym. canaliculatum* 'Sparkesii' was used as the parent in the above cross to produce such dark flowers.

Cym. Son of Midnight (Australian Midnight x *canaliculatum*) above is a second generation *Cym. canaliculatum* hybrid. Its two infusions of the 'Sparkesii' variety has influenced its dark coloured flowers which are much improved for shape over that of the species.

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parent while being a good pollen provider. With this in mind I made another 20 reverse crosses using three different *Cym. suave* clones and the same *Cym. canaliculatum* plants as before. To my amazement, after ten weeks, every attempt on various *Cym. suave* plants had aborted and only about five dropped from the various *Cym. canaliculatum* plants. I realise that they still have a very long way to go to reach maturity and anything could happen during the interim period but the initial signs are, at least, promising. So much for 'expert advice'!

The accompanying photos are of some clones that have flowered in recent years in my orchid house. Last season was particularly good in Adelaide for reasons unknown to me. Perhaps it was that many plants matured their season's new growth rather early last year with a longer than usual dormant period to follow. I cannot think of any other feature that was different about the season or my culture.

So, if you like a challenge and are not too heavy-handed with the hose, try a few *Cym. canaliculatum* varieties . You will surely be rewarded with some exquisite blooms in a great variety of colours and forms at a time of the year when most *Cymbidium* hybrids are all but finished.

Good growing.

Roger Herraman
herraman@austarmetro.com.au

A lovely dark mottled form of *Cym. canaliculatum* from Wallangra near Mastermans Range in New South Wales, which is approximately 100kms further west than Tenderfield.

Cym. Peewee. This primary hybrid between *Cym. madidum* and *Cym. pumilum* is often incorrectly labelled as "*Cym.* Little Black Sambo." The growth habitat is reminiscent of most normal smaller growing cymbidiums.

Cym. Little Black Sambo 'Green'. The colour and markings on this variety point to a green/yellow, mottled variety of *Cym. canaliculatum* having been used as a parent.

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
New South Wales				
9-13 August	Shopping Centre Hours	Spring (Early)	Leisure Coast	Westfield Shoppingtown Centre. Figtree
13 August 14 August	1.30pm-9.00pm 10.00am-3.00pm	Spring (Early)	Hastings River	Wauchope RSL Club Young Street, Wauchope
11-12 August 13 August	9.00am-7.00pm 9.00am-1.00pm	Winter	Maitland & Coalfields District	Cessnock Supporters Club Cessnock
18-21 August	Shopping Centre Hours	Winter	Western Suburbs	Ashfield Mall Shopping Centre, Liverpool Road, Ashfield
19-20 August 21 August	9.00am-4.00pm 9.00am-3.00pm	Winter (St Ives Orchid Fair)	ANOS Warringah Group Ku-Ring-Gai, Manly Warringah, North Shore	St Ives Showground Mona Vale Road St Ives
19-20 August 21 August	9.00am-5.00pm 9.00am-1.00pm	Winter	Sapphire Coast Orchid Club	Twyford Hall Merimbula
20 August	10.00am-4.30pm	Winter	Bellinger Valley	Uniting Church Hall, Bellingen
22-23 August	8.00am-5.00pm	Spring (Early)	Macleay Valley	Credit Union Plaza, Kempsey

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
24-27 August	Shopping Centre Hours	Spring	South Coast	Corrimal Park Mall, Princes Highway, Corrimal
25-28 August	Shopping Centre Hours	Spring	Central Coast Hunter Region Cymbidium	Lake Macquarie Fair, Mt. Hutton
26 August 27 August 28 August	2.30pm-5.00pm 8.00am-5.00pm 9.00am-3.00pm	Spring	Manly Warringah	Mona Vale Memorial Hall Pittwater Road Mona Vale
28 August 3 September	Shopping Centre Hours	Spring	Fairfield District	Stockland Mall Polding Street, Wetherill Park
31 August 3 September	Shopping Centre Hours	Spring	Alstonville	Plaza Shopping Centre Alstonville
1-2 September 3 September	9.00am-4.00pm 9.00am-3.00pm	Spring	Nambucca Valley	Entertainment Centre Ridge Street, Nambucca Heads
5-9 September	Shopping Centre Hours	Spring	Eastwood & District Orchid Circle	Macquarie Shopping Centre Talevera Road, North Ryde
6-10 September	Shopping Centre Hours	Spring	Boolaroo	Belmont Citi Centre, Belmont
7-10 September	Shopping Centre Hours	Spring	Cumberland Orchid Circle	Winston Hills Mall, Caroline Chisholm Drive, Winston Hills
8-11 September	Shopping Centre Hours	Spring	Ballina & District	Ballina Fair Shopping Centre, Ballina
8-11 September	Shopping Centre Hours	Spring	Campbelltown & District	Macarthur Square Shopping Centre Kellycar Road, Campbelltown
8-11 September	9.00am-5.00pm	Spring	Central Coast-Hunter Region Cymbidium	Australasian Flora Festival Mt. Penang
8-9 September 10 September	9.00am-5.00pm 9.00am-2.30pm	Spring	Coffs Harbour	Park Beach Plaza Coffs Harbour
8-10 September 11 September	9.00am-5.00pm 9.00am-4.00pm	Spring	North Shore	Willoughby Civic Centre, Victoria Avenue, Chatswood
8-10 September 11 September	9.00am-5.30pm 9.00am-3.30pm	Spring	Sutherland Shire	Swanes Nursery, 80 Port Hacking Road, Sylvania
9-10 September	10.00am-5.00pm	Spring	Byron & District	RSL Club, Dalley Street, Mullumbimby
9 September 10 September 11 September	10.00am-5.00pm 9.00am-5.00pm 9.00am-12.30pm	Spring	Eurobodalla Orchid Club	Community Centre Museum Place Bateman's Bay
10 September 11 September	11.00am-5.00pm 9.00am-5.00pm	Spring	Blue Mountains & Penrith Districts	The Melrose Hall, Cnr. Great Western Highway & Park Street, Emu Plains
10 September	9.30am-4.00pm	Spring	Panania East Hills	Panania Senior Citizens Hall Cnr. Anderson Avenue & Peffer Street, Panania
12-14 September	9.00am-5.30pm	Spring	Manning River	Manning Mall, Manning Street, Taree
15-16 September 17 September	7.00am-10.00am 7.00am-2.30pm	Spring	City of Lismore	Lismore Central Shopping Centre Carrington Street, Lismore
15-17 September	Shopping Centre Hours	Spring	Hawkesbury District	Richmond Market Place, March Street, Richmond
15-17 September	Shopping Centre Hours to 2.00pm Saturday	Spring	Maitland & Coalfields District	"Big W" Raymond Terrace Market Place
15-18 September	9.00am-9.00pm	Spring	Newcastle	Cardiff Panthers, Munibung Road, Cardiff
15 September 16 September 17 September	8.30am-9.00pm 8.30am-5.30pm 8.30am-4.00pm	Spring	Tweed District	Tweed City Shopping Centre Minjungbal Drive Tweed Heads South
16 September 17 September	11.00am-4.00pm 9.00am-4.00pm	Spring	Shoalhaven	Presbyterian Church Hall Nowra
16 September 17 September 18 September	11.00am-4.00pm 9.00am-4.00pm 9.00am-3.00pm	Spring	Woodburn	Woodburn Memorial Hall Pacific Highway Woodburn
17-18 September	9.00am-4.00pm	Spring	ANOS (Illawarra Group)	The Old Courthouse, Cliff Road, Wollongong
17 September 18 September	9.00am-5.00pm 9.00am-4.00pm	Spring	ANOS (Sydney Group)	Eastwood Shopping Centre 106 Rowe Street, Eastwood
17 September	10.00am-3.00pm	Spring	Gloucester & District	CWA Rooms, Church Street, Gloucester
18-24 September	Shopping Centre Hours	Spring	South Coast Orchid Club	Arndale Shopping Centre, Kilkenny
19 September	8.00am-10.00pm	Spring	Eastern Suburbs	St. Lukes Church Hall, Cnr. Arden & Varna Streets, Clovelly
22-23 September 24 September	9.00am-5.00pm 9.00am-1.00pm	Spring	Casino	Presbyterian Church Hall Hickey Street, Casino
22-24 September	Shopping Centre Hours	Spring	Grafton District	Grafton Shoppingworld, Grafton
22-24 September	Shopping Centre Hours	Spring	Manly Warringah	Centro Shopping Centre, Jacksons Road, Warriewood
22 September 23 September 24 September	9.00am-9.00pm 9.00am-7.00pm 9.00am-3.00pm	Spring	Port Macquarie	Settlement City Shopping Centre, Bay Street Port Macquarie
22-23 September	9.00am-5.00pm	Spring	Sapphire Coast Orchid Club	Bega Town Hall, Bega
23 September 24-25 September	10.00am-5.00pm 9.00am-5.00pm	Spring (Orchids in the Wetlands)	Combined Regional	The Wetland Centre, Australia 412 Sandgate Road, Shortland
24-25 September	10.00am-4.00pm	Spring	Camden Haven	Laurieton United Servicemens Club Seymour Street, Laurieton
24-25 September	9.00am-3.00pm	Spring	Illawarra District	96 Market Street, Wollongong
24 September 25 September	11.00am-5.00pm 10.00am-4.00pm	Spring	Wagga Wagga	Sturt Public School, Lake Albert Road, Wagga Wagga

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
30 September- 1 October	9.00am-9.00pm 9.00am-3.00pm	Spring	Maclean District	Maclean Bowling Club, Maclean
1 October	9.00am-2.00pm	Spring	Southern Riviera	Anglican Church Hall, Princes Highway, Milton
1-2 October	9.00am-4.00pm	Spring	Great Lakes	Forster Primary School, Forster
1 October 2 October	9.30am-4.30pm 9.00am-2.30pm	Spring (Orchids by the Sea)	Port Macquarie	Port Macquarie High School Hall Owen Street, Port Macquarie
1 October 2 October	9.00am-5.00pm 9.00am-4.00pm	Spring (South & West Regional Show)	Albury-Wodonga & District Orchid Club	Mirambeena Centre 19 Martha Mews, Lavington
9 October	10.00am-4.00pm	Spring (Bago Winery Show)	Hastings River	Bago Winery Wauchope
10-12 October	8.00am-5.00pm	Spring	Macleay Valley	Credit Union Plaza, Kempsey
12-15 October	Shopping Centre Hours	Spring	Newcastle	Jesmond Shopping Centre, Blue Gum Road, Jesmond
14-16 October	9.00am-5.00pm	Spring	OSNSW	Cronulla Leagues Club, Captain Cook Drive, Cronulla
14-15 October 16 October	9.30am-5.00pm 9.30am-3.00pm	Spring (Club Banora Show)	Tweed District	Club Banora, Leisure Drive Banora Point
15-16 October	9.00am-4.00pm	Spring (Sarcanthinae Show)	ANOS (Illawarra Group)	The Old Courthouse, Cliff Road, Wollongong
ACT				
24 September 25 September	11.00am-5.00pm 12.00noon-4.30pm	Spring	Canberra	St. John's Church Hall Constitution Avenue, Reid
Queensland				
12-13 August 14 August	8.30am-5.00pm 8.30am-3.00pm	Winter (Annual Show)	Maroochydore	Millwell Road Community Hall, Maroochydore
18-20 August	8.30am-9.00pm	Winter	Southport & Districts	Centro Nerang, 57 Station Street, Nerang
19-21 August	9.00am-4.00pm	Spring	Queensland	Auditorium, Botanic Gardens, Mt. Coot-tha
26 August 27 August	8.30am-5.00pm 8.30am-2.30pm	Winter	Childers & Isis District	Isis Cultural Centre, Churchill Street, Childers
26-27 August	9.00am-3.30pm	Spring	Noosa District Orchid & Foliage	Cooroy RSL Club, Cooroy
27-28 August	9.00am-4.00pm	Spring	ANOS (Kabi Group)	Lion's Hall, Lawnton Showgrounds, Gympie Road, Lawnton
27 August 28 August	8.30am-4.00pm 8.30am-3.00pm	Spring	Logan & District	Logan Central Community Centre Cnr. Wembley Road & Jacaranda Avenue, Woodridge
27 August 28 August	8.30am-4.00pm 9.00am-4.00pm	Spring	North Brisbane	Auditorium, Botanic Gardens Mt. Coot-tha
31 August- 3 September	Shopping Centre Hours	Spring	Redcliffe District	Peninsular Fair Kippa-Ring
1-3 September	Show Times	Spring	Gold Coast	Gold Coast Show, Jupiters Pavilion Parklands, Cnr. Parklands Drive & Smith Street, Southport
1-2 September 3 September	9.00am-5.00pm 9.00am-2.30pm	Spring (50th Anniversary Show)	Nambour	Uniting Church Hall Coronation Avenue, Nambour
1-3 September	Shopping Centre Hours	Spring	Townsville District Orchid & Allied Plants Assoc	Castletown Shopping Centre Kings Road, Hyde Park, Townsville
1-9 September	9.00am-5.00pm	Spring	Wynnum Manly District	Wynnum Library, Wynnum
3-4 September	TBA	Spring	Capricorn Orchid & Foliage Club	Lawrences Holden Show Room Cnr. Richardson Road & Bruce Highway, North Rockhampton
8-9 September 10 September	9.00am-5.00pm 9.00am-3.00pm	Spring	Lockyer Valley	Cultural Centre, Laidley-Plainlands Road Laidley
10 September 11 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Native of Toowoomba	Our Saviour's Lutheran Church Hall Cnr. West & Alderley Streets, Toowoomba
10-11 September	8.30am-3.00pm	Spring	Ipswich	Bundamba State School Hall, Brisbane Road, Bundamba
10-11 September	9.00am-4.00pm	Spring	Orchid Species	Auditorium, Botanic Gardens, Mt. Coot-tha
15-17 September	Shopping Centre Hours	Spring	ANOS (Gold Coast Group)	Runnaway Bay Shopping Plaza Runnaway Bay
15-16 September 17 September	8.30am-5.00pm 8.30am-1.00pm	Spring	Maryborough District	St. Pauls Memorial Hall Adelaide Street, Maryborough
15-17 September	8.30am-9.00pm	Spring	Southport & Districts	Centro Southport Park Cnr. Benowa & Ferry Roads, Southport
15-17 September	Shopping Centre Hours	Spring	West Moreton Orchid Group	Ipswich City Square Shopping Centre Brisbane Street, Ipswich
16-21 September	8.30am-5.00pm	Spring	Toowoomba	St. Pauls Lutheran Church Hall Cnr. James & Phillip Streets, Toowoomba
17-23 September 24 September	8.30am-5.00pm 8.30am-1.00pm	Spring	Darling Dawns Orchid Assoc	Centenary Heights Assembly Hall Cnr. Ramsay & South Streets, Toowoomba
17 September 18 September	8.30am-4.30pm 8.30am-3.30pm	Spring	Eastern District	Wondall Heights State School, Wondall Road, Manly West
17 September 18 September	9.00am-4.30pm 8.30am-3.30pm	Spring	Rockhampton	Rockhampton High School Assembly Hall Campbell Street, Rockhampton
17-18 September	9.00am-4.00pm	Spring	West Brisbane	Auditorium, Botanic Gardens, Mt. Coot-tha
18 September	TBA	Spring (Annual Field Day)	Pioneer River Orchid & Plant Assoc	St. Francis Hall, Holland Street Mackay

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
21 September	Shopping Centre Hours	Spring	North Moreton Qld. Orchid Council	Stafford City Shopping Centre
22-24 September	Shopping Centre Hours	Spring	Herbert River Orchid & Allied Plant	Mid Town Shopping Centre Herbert Street, Ingham
23 September 24 September	9.00am-5.00pm 9.00am-3.00pm	Spring	Glasshouse Country	"Des Dwyer" Community Hall Peachester Road, Beerwah
24 September 25 September	9.00am-5.00pm 9.00am-3.00pm	Spring	Hervey Bay	Urangan State High School Robert Street, Torquay
29-30 September- 1 October	Shopping Centre Hours	Spring	Sunshine Coast Caloundra	Pelican Waters Shopping Centre Golden Beach
1-2 October	9.00am-4.00pm	Spring	Beaudesert District Orchid & Foliage	Drynan Pavilion Beaudesert Showgrounds Albert Street, Beaudesert
6-7 October	Shopping Centre Hours	Spring	Emerald Orchid & Foliage	Village Shopping Centre, Emerald
6-8 October	Shopping Centre Hours	Spring	Mackay & District	Mount Pleasant/Greenfields, Shopping Centre, Mackay
7-9 October	9.00am-5.00pm	Spring	Townsville	Townsville Orchid Society Hall, Joe Kirwan Park Charles Street, Kirwan
8 October 9 October	9.00am-5.00pm 9.00am-2.30pm	Spring	Bribie Island	Indoor Bowls Club Hall First Avenue, Bribie Island
8 October	8.00am-4.00pm	Spring (Charity Show)	Redland	Donald Simpson Leisure Centre Bloomfield Street, Cleveland
14 October 15 October	7.00am-10.00pm 9.00am-4.00pm	Spring	Blackwater & District Orchid & Foliage Club	Civic Centre Blackwater
Victoria				
13-14 August	10.00am-4.30pm	Autumn	Geelong Orchid & Indoor Plant	Vines Road Community Centre 49 Vines Road, Hamlyn Heights
13 August 14 August	10.00am-5.00pm 10.00am-4.00pm	Winter	Stawell	Halls Gap Hall Halls Gap
19-21 August	9.00am-5.00pm	Winter	OSCOV	Collectors' Corner/Gardenworld, Springvale Road, Keysborough
26-28 August	Shopping Centre Hours	Winter	Gippsland Orchid Club	Mid-Valley Plaza, Princes Drive, Morwell
27-28 August	9.30am-4.00pm	Winter	West Gippsland Orchid Club	RSL Rooms Smith Street, Warragul
3 September 4 September	9.30am-5.00pm 10.00am-4.00pm	Spring	Sale & District Orchid Club	St. Mary's Hall Cnr. Macalister & Pearson Streets, Sale
9 September 10 September	9.30am-4.30pm 9.30am-3.00pm	Spring	South Gippsland Orchid Club	Town Hall Baillieu Street, Wonthaggi
10-11 September	9.00am-5.00pm	Spring	Maribyrnong	Maribyrnong Community Centre, Randall Street, Maribyrnong
10-11 September	10.00am-4.00pm	Spring	Southern Suburbs	Senior Citizens Hall Cnr. Exley Drive & Nepean Highway, Moorabbin
17 September 18 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Bairnsdale & District Orchid Group	Lucknow Memorial Hall Omeo Highway, Lucknow
17-18 September	9.00am-4.00pm	Spring	Melbourne Western	Racecourse (Members Entrance), Bulban Road, Werribee
17 September 18 September	10.00am-4.00pm 10.00am-3.30pm	Spring	Mid-Murray Orchid Club	Memorial Hall Nolan Street, Kerang
17-18 September	9.30am-4.30pm	Spring	Victorian Orchid Club	Red Cross Centre, Heidelberg Repatriation Hospital, entry gate 8, Waterdale Road, Heidelberg
17-18 September	9.30am-4.00pm	Spring	West Gippsland Orchid Club	Anglican Hall, Princes Way Drouin
23 September 24 September 25 September	9.30am-5.00pm 10.00am-5.00pm 10.00am-4.00pm	Spring	Stawell	Stawell Entertainment Centre Main Street Stawell
23 September 24 September 25 September	9.00am-9.00pm 9.00am-5.30pm 10.00am-5.00pm	Spring	Sunraysia Orchid Club	Mildura Plaza Complex Cnr. Deakin Avenue & 15th Street Mildura
24-25 September	9.00am-4.00pm	Spring	Australasian Native	Mt. Waverley Community Centre 47 Miller Crescent, Mt. Waverley
24-25 September	10.00am-4.00pm	Spring	Berwick Orchid Club	Senior Citizens' Hall, 112 High Street, Berwick
24 September 25 September	9.00am-5.00pm 9.00am-4.30pm	Spring	Goulburn Valley Orchid Club	Senior Citizens' Club Rooms Welsford Street, Shepparton
24 September 25 September	9.00am-5.00pm 9.00am-4.00pm	Spring	Maroondah	Beaumont Hall Blackburn High School, Blackburn
24 September- 2 October	Shopping Centre Hours	Spring	Mornington Peninsula	Gateway Shopping Complex, Langwarrin
24 September 25 September	10.00am-5.00pm 10.00am-4.00pm	Spring	Wangaratta & District	Ovens College Hall Greta Road, Wangaratta
30 September- 2 October	10.00am-4.30pm	Spring	Gippsland Orchid Club	Lavalla College Kosciusko Street, Traralgon
1 October 2 October	9.00am-5.00pm 9.00am-4.00pm	Spring	Horsham & District	Horsham Town Hall Wilson Street, Horsham
1 October 2 October	9.00am-5.00pm 12.30pm-4.30pm	Spring (World of Orchids)	Melbourne Eastern	Burwood East Uniting Church Community Hall, Cnr. Burwood Highway & Blackburn Road, East Burwood

SHOWDATES

DATE	TIME	SEASON	ORCHID SOCIETY	SHOW ADDRESS
1 October 2 October	9.00am-5.00pm 10.00am-4.00pm	Spring	Ringwood	Maroondah Secondary College Brentnall Road, Croydon
1 October 2 October	10.00am-5.00pm 10.00am-4.00pm	Spring	Warrnambool District	Warrnambool College Hall Grafton Road, Warrnambool
1 October 2 October	9.00am-4.30pm 9.30am-4.30pm	Spring	Warringal	St. Sava Community Hall 212 Diamond Greek Road, Greensborough
7 October 8 October 9 October	1.00pm-5.00pm 10.00am-5.00pm 10.00am-4.00pm	Spring	Bendigo Orchid Club	YMCA Leisure Centre Browning Street Kangaroo Flat
8-9 October	10.00am-4.00pm	Spring	Colac Orchid Club	Colac High School Assembly Hall Princes Highway, Colac West
8-9 October	10.00am-4.30pm	Spring	Geelong Orchid & Indoor Plant Club	Vines Road Community Centre 49 Vines Road, Hamlyn Heights
8-9 October	TBA	Spring	Murray Valley Orchid Club	Scout Hall, Welsford Street, Shepparton
8 October 9 October	9.00am-5.00pm 10.00am-4.00pm	Spring	St. Arnaud	RSL Hall St. Arnaud
14 October 15 October 16 October	2.00pm-5.00pm 10.00am-5.00pm 10.00am-4.00pm	Spring	Ballarat	SMB Horticultural Centre Cnr. Gillies & Gregory Streets Ballarat
15 October 16 October	9.00am-4.30pm 10.00am-3.00pm	Spring	Cobden & District Orchid Club	Civic Hall Victoria Street, Cobden
15 October 16 October	9.00am-5.00pm 10.00am-4.00pm	Spring	Yarra Valley	Seville Public Hall Warburton Highway, Seville
South Australia				
27 August 28 August	9.00am-5.00pm 9.00am-4.00pm	Spring	Riverland	Berri Senior Citizens Clubrooms Crawford Terrace, Berri
10 September 11 September	10.00am-5.00pm 10.00am-4.00pm	Spring	Native of SA	St. Bernadettes Hall South Road, St. Marys
14-18 September	10.00am-5.00pm	Spring	Port Lincoln Orchid Club	Kallinyalla Nursery
16 September 17-18 September	12.00noon-5.00pm 10.00am-4.00pm	Spring	Murray Bridge & Districts Orchid Club	Murray Bridge Town Hall Bridge Street, Murray Bridge
18-24 September	Shopping Centre Hours	Spring	South Coast Orchid Club of SA	TBA
19-24 September	Shopping Centre Hours	Spring	South Australian Orchidaceous	Burnside Village Shopping Centre Portrush Road, Glenside
23 September 24 September	10.00am-4.00pm 10.00am-2.00pm	Spring	Pt. Augusta Orchid Club	Pt. Augusta Garden Club Room Elizabeth Terrace, Pt. Augusta
Western Australia				
25-27 August	Shopping Centre Hours	Spring	Wanneroo	Lakeside Joondalup Shopping Centre
3 September 4 September	10.00am-5.00pm 10.00am-3.00pm	Spring	Augusta & Districts	Margaret River Cultural Centre Wallcliffe Road, Margaret River
27-28 September 29 September 30 Sept-1 Oct	8.30am-5.00pm 8.30am-9.00pm 8.30am-5.00pm	Spring	Bunbury	Bunbury Forum
29 September 30 September 1 October	9.00am-9.00pm 9.00am-6.00pm 9.00am-1.00pm	Spring	Albany	North Road Shopping Centre Albany
Northern Territory				
17 September 18 September	9.00am-5.00pm 9.00am-4.30pm	Spring	Nightcliff	Wesleyan Church, George Brown Botanic Gardens
Tasmania				
30 September 1 October 2 October	2.00pm-6.00pm 9.00am-6.00pm 9.00am-4.00pm	Spring (State Conference & Show)	Devonport	Maidstone Park Memorial Hall Spreyton
7 October 8 October 9 October	2.00pm-5.30pm 9.00am-5.30pm 9.00am-4.00pm	Spring	Burnie	Burnie Civic Centre Jones Street Burnie
7-9 October	10.00am-5.00pm	Spring	Launceston	Launceston Silverdome, Prospect
New Zealand				
1-4 September	10.00am-6.00pm	Spring	Waikato	Claudelands Showgrounds
10 September 11 September	12.00noon-4.30pm 10.00am-4.30pm	Spring	Hutt Valley Orchid Circle	Hutt Valley Horticulturial Society Hall, 38 Laings Road, Lower Hutt
16 September 17 September 18 September	11.00am-5.00pm 9.00am-4.00pm 10.00am-3.30pm	Spring	Whangarei	Forum North Whangarei
30 September 1 October	11.00am-5.00pm 10.00am-4.00pm	Spring	Wairoa	Presbyterian Church Hall Wairoa
8 October 9 October	10.00am-5.00pm 9.00am-4.30pm	Spring	Canterbury	Horticultural Centre Riccarton Avenue, Christchurch

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24-25 September 2005 – Orchids in the Wetlands, Newcastle, NSW

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9 October 2005 – Hills District Orchids Open Day, Northmead, NSW

12-13 November 2005 – Stawell Orchid Society Fair/Seminar/Summer Show, Victoria

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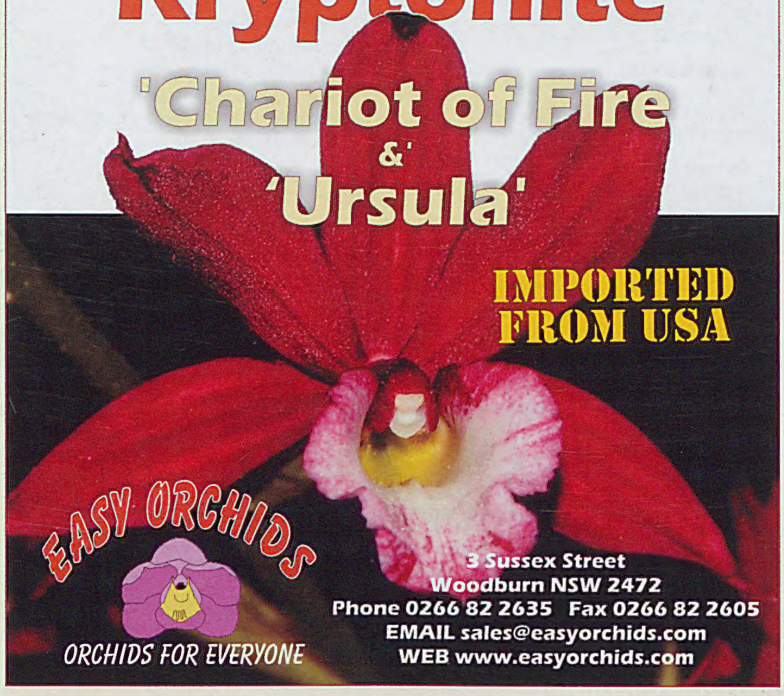

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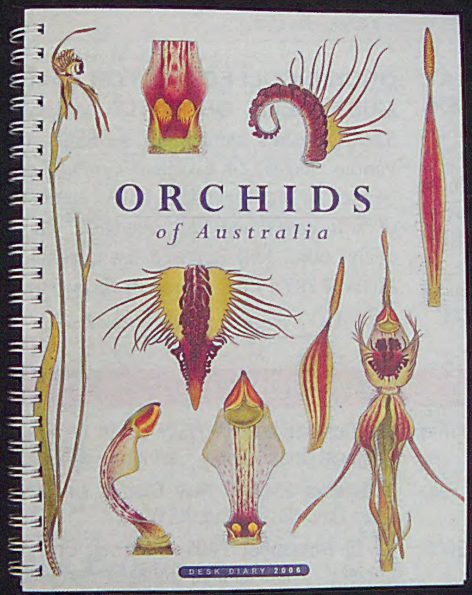

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